_\$2

\$	MMM MMM MMM MMM MMM MMM	00000000000000000000000000000000000000	RRRRRRRRRRR RRRRRRRRRRR RRRRRRRRRRRR		
SSS	MMMMM MMMMMM	GGG	RRR RRR		LLL LLL
\$\$\$ \$\$\$ \$\$\$	MMMMM MMMMMM	GGĞ	RRR RRR	ΪŤ	iii
555	ммммм ммммм	GGG	RRR RRR	TTT	LLL
222	MMM MMM MMM	GGG	RRR RRR	TTT	LLL
SSS	MMM MMM MMM	GGG	RRR RRR	ŢŢŢ	LLL
SSS	MMM MMM MMM	GGG	RRR RRR	<u> </u>	LLL
\$\$\$\$\$\$\$\$\$	MMM MMM	GGG	RRRRRRRRRR	ŢŢŢ	LLL
\$\$\$\$\$\$\$\$\$	MMM MMM	GGG	RRRRRRRRRRR	ŢŢŢ	ΓΓΓ
\$\$\$\$\$\$\$\$\$	MMM MMM	666	RRRRRRRRRRR	III	řřř
\$\$\$ \$\$\$	MMM MMM	000 00000000 000000000	RRR RRR	ŢŢŢ	LLL
\$\$\$	MMM MMM	000 00000000 000000000	RRR RRR RRR RRR	TTT	LLL
\$\$\$	MMM MMM	GGG GGG	RRR RRR RRR RRR	††† †††	LLL
\$\$\$	MMM MMM	GGG GGG	RRR RRR	ŤŤŤ	LLL
ŠŠŠ	MMM MMM	GGG GGG	RRR RRR	ήή	
SSSSSSSSSS	MMM MMM	GGGGGGGG	RRR RRR	ίίτ	
SSSSSSSSSS	MMM MMM	ĞĞĞĞĞĞĞĞ	RRR RRR	iii	
SSSSSSSSSS	MMM MMM	GGGGGGGG	RRR RRR	ΪŤ	

\$	MM MM MM MM MMM MMM MMMM MMM MM MM MM MM MM	GGGGGGG GGGGGGG GG GG GG GG GG GG GG GG	\$		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	BBBBBBBB BB BB BB BB BB BB BB BB BBBBBBB
		\$						

SI

1-002 - Allow logical name in REQUIRE file spec. PLL 21-Mar-1984

1-003 - Tighten up some error checking in the state tables. PLL 11-Jul-1984

1-001 - Original. PLL 29-Jan-1983

1 ! 1-004 - More error checking. PLL 11-Jul-1984

0044

0045

0046

0047

0048 0049 Page

(1)

```
M 3
                                                                                       16-Sep-1984 01:19:22
14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                                       VAX-11 Bliss-32 V4.0-742
1-004
                     Declarations
                                                                                                                       [SMGRTL.SRC]SMGSTATAB.B32:1
                             1 %SBTTL 'Declarations'
     55555555567890
                     0052
0053
                                   SWITCHES:
                     0054
                     0055
                     0056
0057
                                   LINKAGES:
                     0058
                                           NONE
                     0059
     61
                     0060
                                   TABLE OF CONTENTS:
     62
63
                     0061
                     0063
     64
                                FORWARD ROUTINE
                                          ROUTINE
MISSING_FILE_SPEC,
MISSING_NAME_REQUIRE,
PARSE_BOOLEARS,
PARSE_NUMERICS,
PARSE_REQUIRE,
PARSE_STRINGS,
SEARCH_KNOWN_TYPES,
START_NEW_TERM_DEF,
UNRFCOGNIZED_STATEMENT,
ZERO_CUR_TERM_DEF
     65
                     0064
                                                                                         signal error
                     0065
     66
                                                                                         signal error
                     0066
0067
     67
                                                                                         compile boolean capabilities
     68
                                                                                         compile numeric capabilities
     0068
                                                                                         compile caps in REQUIRE file
                     0069
0070
                                                                                         compile string capabilities search table of known terminals
                     0071
                                                                                         new term, init def fields
                     0072
0073
                                                                                         signal error
                                           ZERO_CUR_TERM_DEF,
                                                                                         mark no current terminal definition
                     0074
                     0075
                                      ! The following are used by all the SMG TPARSE tables.
                     0076
                                          SMG$$BLANKS_OFF,
SMG$$BLANKS_ON,
SMG$$COPY_CAP,
SMG$$FLUSH_ARITHMETIC,
SMG$$FLUSH_NUMERIC,
SMG$$FLUSH_SAVED_BUFFER,
SMG$$NEXT_RECORD,
SMG$$SAVE_TOKEN_STRING
     78
79
                     0077
                                                                                         set bit to skip over blanks
                     0078
                                                                                         set bit to find blanks
     80
                     0075
                                                                                         copy string cap into TERMTABLE
     81
                     0080
                                                                                         flush arithmetic data to TERMTABLE
     82
83
                     0081
                                                                                         flush number to data area
                     0082
0083
                                                                                         flush saved token to data area
     84
                                                                                         get next record from ascii TERMTABLE
     85
                     0084
0085
                                           SMG$$SAVE_TOKEN_STRING,
                                                                                         save pointer & count of chars
     86
                                                                                         in current cap string
                     0086
0087
     87
                                           SMG$$STORE_CAP_MASK,
SMG$$SYNTAX_ERROR,
                                                                                         remember cap number
     88
                                                                                         signal syntax error
     89
                     0088
                                           SMG$$WRITE_DATA;
                                                                                         block I/O write data to file
     90
                     0089
     91
                     0090
     92
93
                     0091
                                ! INCLUDE FILES:
                     0092
     94
                     0094
0172
0173
     95
                                REQUIRE 'RTLIN: SMGPROLOG';
                                                                                      ! Defines psects, macros, etc.
     96
     97
                     0174
     98
                                LIBRARY 'RTLML: SMGTPALIB';
                                                                                         Bliss library of definitions &
     99
                     0175
                                                                                       ! macros used for TERMTABLE
                     0176
0177
    100
    101
                                LIBRARY 'RTLTPAMAC':
                                                                                       ! TPARSE library of macros
   102
                     0178
0179
    104
                     0180
                                   EQUATED SYMBOLS:
    105
                     0181
    106
                     0182
0183
                                LITERAL
    107
                                           SINGLE_QUOTE = "XX'27",
```

(2)

Page

```
N 3
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                       16-Sep-1984 01:19:22
14-Sep-1984 13:10:03
                                                                                                                        VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                          Page
1-004
                      Declarations
                                                                                                                                                                                 (2)
                                                                                                                         [SMGRTL.SRC]SMGSTATAB.B32:1
                     0184
0185
                                           DOUBLE_QUOTE = %x'22',
FORCED_END = %x'00';
   108
   109
                     0186
0187
   110
   111
   112
                     0188
                      0189
                                   FIELDS:
                      0190
   114
                      0191
   115
                                           NONE
                     0192
0193
   116
   117
                                   PSECTS:
   118
                     0194
   119
                     0195
   120
121
122
123
124
125
126
127
                     0196
                      0197
                                   EXTERNAL REFERENCES:
                     0198
                     0199
                                EXTERNAL ROUTINE
                     0200
                                            LIBSTPARSE.
                                                                                          parser
                     0201
                                            STRSUPCASE.
                                                                                          convert to uppercase chars
                     0202
                                            STR$COPY_DX;
                                                                                        ! copy src string to dest string
                     0204
0205
   128
129
130
131
132
133
134
135
                                EXTERNAL
                                           SMGS_ERRLIN,
SMGS_ERRAT_LIN,
SMGS_FAIOPEFIL,
SMGS_MISTERNAM,
SMGS_SYNERR,
SMGS_UNRECSTA,
SMGS_MISFILSPE,
SMGS_MISENDSTA,
SMGS_MISENDSTA,
                                                                                          error at line n
                     0206
0207
                                                                                          error in line n at or near 'x' failed to open file x
                     0208
                                                                                          missing terminal name
                     0209
                                                                                          syntax error
                     0210
                                                                                          unrecognized statement
                     0211
0212
0213
                                                                                          missing file spec in REQUIRE stmt
   136
137
                                                                                          missing END statement
                                            SMG$_MISNAMREQ;
                                                                                          expected NAME or REQUIRE
                     0214
0215
   138
   139
                     0216
0217
   140
                                ! The following is the table of DEC terminals used by SET/SHOW TERM.
   141
   142
143
                     0218
                             1 EXTERNAL
                                           TERM$_TABLE : BLOCKVECTOR [,28,BYTE], !table of known terminals TERM$_NAME : VECTOR, ! table of their names
                     0219
                     0220
   144
                     0221
0222
0223
0224
0225
   145
                                           TERMS_NUM;
                                                                                          number of known terminals
   146
   147
   148
                                ! The following are the keyword and state tables needed by LIB$TPARSE.
   149
                     0226
0227
0228
   150
                              1 EXTERNAL
                                           SMG$$A_BOOLEAN_STATES,
SMG$$A_BOOLEAN_KEYWDS,
SMG$$A_NUMERIC_STATES,
   151
   152
153
                     0229
                     0230
   154
                                            SMG$$A_NUMERIC_KEYWDS,
                     0231
0232
0233
0234
0235
0236
   155
                                            SMG$$A_STRING_STATES.
   156
                                           SMG$$A_STRING_KEYWDS;
   157
   158
                                   OWN STORAGE:
   159
   160
                                GLOBAL
   161
                     0238
   162
                                            SMG$$MASK_ADR : INITIAL (0),
                                                                                                   ! used by TPARSE action routines
                     0239
   163
                                           SMG$$NEXT_NEGATIVE_NUMBER : INITIAL (-2),
                     0240
   164
                                                                                        ! used to assign terminal numbers
```

SMG\$STATEMENT_ 1-004	T TPARSE tables for TERMTABLE statements 16-Sep-1984 Declarations 14-Sep-1984	34 01:19:22
165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180	0244 SMG\$\$CURRENT_BLOCK : INITIAL (2 + SMG\$K_CAP CURRENT CURRENT CURRENT CURRENT CURRENT CURRENT CURRENT CURRENT COMBON COMBO	with -2 cause SET TERM -1 as failed to find name) input line - maintained or messages AP_PTRS_SIZE/512), virtual block in TERMTABLE.EXE (ips over ptrs) f terminal definition eserved for a header) is_SIZE); g offset for terminal data

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$STATEMENT_TABLES - TPARSE tables for TERMT 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                                 VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                Page
                                                                                                                 ESMGRTL.SRCJSMGSTATAB.B32;1
                            1 %SBTTL 'SMG$$STATEMENT_TABLES - TPARSE tables for TERMTABLE statements'
   184
                    0259
                            1
   185
                    0260
                               ! FUNCTIONAL DESCRIPTION:
   186
                    0261
                    0262
   187
                                         The following are the state tables used to parse an ascii IERMTABLE.IXI (a file which defines terminal characteristics).
   188
   189
                     0264
                                         This set of state tables looks for valid statements and then
   190
                     0265
                                         calls LIB$TPARSE with the state tables for those statements.
   191
                     0266
   192
193
                    0267
                    0268
                              SINIT_STATE (SMGSSA_STMT_STATES, SMGSSA_STMT_KEYWDS);
                    0269
0270
0271
0272
0273
0274
0275
   194
                                                                        ! set up state tables, key words
   196
197
                               ! Begin scanning loop. Look for the start of a statement.
                              ! Skip over blanks and comments.
   198
   199
   500
                              $STATE (BEGIN_SCAN,

((END_OF_LINE), BEGIN_SCAN, SMG$$NEXT_RECORD),

('!', BEGIN_SCAN, SMG$$NEXT_RECORD),

SMG$$RLANKS_OFF),
    201
                  P 0276
   202
                  P 0277
                 P 0278
                 P 0279
                                    ((STATEMENT), BEGIN_SCAN, SMG$$BLANKS_OFF),
   204
   205
                    0280
                                    (TPAS_LAMBDA, TPAS_EXIT)
   206
207
                    0281
                    0282
                    0283
   208
   209
                    0284
                              ! This state indicates the end of a line. A comment also signals the
                    0285
   210
                                 end of a line.
   211
                    0286
   212
213
                    0287
                              SSTATE (END_OF_LINE,
(TPAS_EDS, TPAS_EXIT),
('!', TPAS_EXIT),
                 P 0288
                 P 0289
   215
                 P 0290
   216
                 P 0291
                                    (TPA$_LAMBDA, TPA$_FAIL)
                    0292
0293
   218
   219
                    0294 1
                    0295
   ! Look for the beginning of a known statement type.
                    0296
                 P 0297
                              $STATE (STATEMENT.
                                    ('REQUIRE', RÉQUIRE_FILE),
('NAME', EQUALS, , SMG$K_NAME, SMG$$MASK_ADR),
(FORCED_END, TPA$_FAIL),
                 P 0298
                 P 0299
                 P 0300
                                    (TPAS_SYMBOL, MISSING NAME_REQUIRE), (TPAS_ANY, MISSING_NAME_REQUIRE)
                 P 0301
                  P 0302
                    0303
                                    ):
                    0304
                    0305
                    0306
                               ! NAME = 'string' is the format we expect. Found NAME, now look for '='.
                  P 0308
                               SSTATE (EQUALS
                  P 0309
                                    ((END_OF_LINE), EQUALS, SMG$$NEXT_RECURD),
                                    ('=', NAME VALUE, SMG$$STORE (AP MASK), (TPA$_SYMBOL, , SMG$$SYNTAX_ERROR), (TPA$_ANY, , SMG$$SYNTAX_ERROR)
                  P 0310
                  P (311
                  P 3312
                    0313
```

239

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$STATEMENT_TABLES - TPARSE tables for TERMT 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                                                        VAX-11 Bliss-32 V4.0-742
                                                                                                                                        [SMGRTL.SRC]SMGSTATAB.B32:1
     240
241
                         0316
                                     . The value of NAME should be a string.
     242
                                  1 i-
                                    SSTATE (NAME_VALUE,

((END_OF_LINE), NAME_VALUE, SMG$$NEXT_RECORD),

((STRING), SCAN_DEFINITION),

(TPAS_SYMBOL, SMG$$SYNTAX_ERROR),

(TPAS_ANY, SMG$$SYNTAX_ERROR)
                     P 0318
     244
                     P 0319
                     P 0320
    246
                      P 0321
                        0322
     248
    0324
                         0325
                        0326
                                     ! A string can be bounded by single or double quotes.
                     P 0328
                                     SSTATE (STRING
                                           (SINGLE QUOTE, SINGLE QUOTE STRING), (DOUBLE QUOTE, DOUBLE QUOTE STRING), (TPA$_LAMBDA, TPA$_FAIL)
                     P 0329
                     P 0330
                      P 0331
                        0332
     258
                        0334
    259
     260
                                     ! The name should be plain text - no escape, control, or expressions allowed.
                     0336
P 0337
     261
                                    $STATE (SINGLE_QUOTE_STRING,
(SINGLE_QUOTE, TPA$_EXIT, SMG$$COPY_CAP),
(TPA$_SYMBOL, SINGLE_QUOTE_STRING, SMG$$SAVE_TOKEN_STRING),
(DOUBLE_QUOTE, SMG$$SYNTAX_ERROR),
(TPA$_LAMBDA, TPA$_FAIL)
    262
                     P 0338
     264
                     P 0339
     265
                     P 0340
    266
267
                     P 0341
                        0342
268
                                    $STATE (DOUBLE_QUOTE_STRING,
(DOUBLE_QUOTE, TPA$_EXIT, SMG$$COPY_CAP),
(TPA$_SYMBOL, DOUBLE_QUOTE_STRING, SMG$$SAVE_TOKEN_STRING),
(SINGEE_QUOTE, , SMG$$SYNTAX_ERROR),
(TPA$_LAMBDA, TPA$_FAIL)
    269
                     P 0344
    270
                     P 0345
    271
272
273
                     P 0346
                     P 0347
                     P 0348
    274
                         0349
    275
                         0350 1
    276
277
                         0351 1
                        0352 1 1 1
                                     ! Found a REQUIRE statement, now find the file name that should follow it.
    278
279
                                $STATE (REQUIRE FILE,

((END_OF_LINE), REQUIRE FILE, SMG$$NEXT_RECORD),

((FILE_SPEC), BEGIN_SCAN, PARSE_REQUIRE),

(TPAS_CAMBDA, TPAS_FAIL, MISSING_FILE_SPEC)
                     P 0354
    280
                     P 0355
     281
                     P 0356
    282
283
                     P 0357
                         0358
     284
                         0359
     285
                         0360
     286
                         0361
                                        Assume the file name is between single quotes. Pass the name to $OPEN
                        0362
     287
                                        and let it decide whether it's a valid filespec.
     288
     289
290
                                    $STATE (FILE SPEC, (SINGLE QUOTE)
                     P 0364
                     P 0365
     291
                     P 0366
                                           (TPAS_LAMBDA, TPAS_FAIL)
     262
293
                         0367
                        0368
                                    $STATE (GET_FILE_SPEC,
(SINGLE_QUOTE, TPAS_EXIT),
(TPAS_ANY, GET_FILE_SPEC, SMG$$SAVE_TOKEN_STRING),
     294
                     P 0369
                     P 0370
     296
                     P 0371
```

1-(

(3)

Page

: 1

```
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 1-004 SMG$$STATEMENT_TABLES - TPARSE tables for TERMT 14-Sep-1984 13:10:03
                                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                                                                                                                                                   Page
                                                                                                                                                                                                                                                                              (3)
                                0372
0373
0374
0375
0376
0377
      297
298
299
                                                          (TPAS_LAMBDA, TPAS_FAIL)
      300
                                                 ! When we get here, we have found a terminal name. At this point we are
      301
                                                     expecting some capabilities to be defined.
      303
                                            $STATE (SCAN_DEFINITION,

((END_OF_LINE), SCAN_DEFINITION, SMG$$NEXT_RECORD),

('BOOLEAR', SCAN_DEFINITION, PARSE_BOOLEANS),

('NUMERIC', SCAN_DEFINITION, PARSE_NUMERICS),

('STRING', SCAN_DEFINITION, PARSE_STRINGS),

('END', BEGIN_SCAN, ZERO_CUR_TERM_DEF),

(TPAS_SYMBOL, UNRECOGNIZED_STATEMENT),

(TPAS_ANY, UNRECOGNIZED_STATEMENT)
                            P 0379
P 0380
P 0381
P 0382
P 0383
      305
      306
      307
      308
      309
                             P 0384
      310
                             P 0385
                             P 0386
     311
                                 0387
                                 0388
```

```
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                   TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 MISSING_FILE_SPEC - signal missing file specifi 14-Sep-1984 13:10:03
                                                                                                               VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                                            Page
                    0389
0390
                             %SBTTL 'MISSING_FILE_SPEC - signal missing file specification' ROUTINE MISSING_FILE_SPEC =
   316
                    0391
   317
                    0392
0393
0394
0395
   319
                              ! FUNCTIONAL DESCRIPTION:
                                        We come here if there is no file spec in the REQUIRE statement.
                    0396
0397
                                CALLING SEQUENCE:
                    0398
                    0399
                                        MISSING_FILE_SPEC ();
                    0400
                    0401
                                FORMAL PARAMETERS:
                    0402
                                        NONE
                    0404
                    0405
                                IMPLICIT INPUTS:
                    0406
                    0407
                                                  Points to TPARSE parameter block
                    0408
                    0409
                                IMPLICIT OUTPUTS:
                    0410
                    0411
                                        NONE
   338
339
                   0412
                                COMPLETION STATUS:
   0414
                    0415
                                         SS$_NORMAL
                    0416
                    0417
                                SIDE EFFECTS:
                    0418
                    0419
                   0420
0421
                                   BEGIN
                                   BUILTIN
                    0423
                                        AP;
                   0424
0425
0426
0427
0428
0429
                                   MAP
                                        AP : REF BLOCK [,BYTE];
                                   SIGNAL_STOP (SMG$_ERRLIN,
1, .5MG$$(URRENT_LINE,
SMG$_MISFILSPE)
   356
   357
                    0431
                                   END:
                                                                                ! end of routine MISSING_FILE_SPEC
                                                                                             .TITLE SMG$STATEMENT_TABLES TPARSE tables for TERMTABL
                                                                                                                                 E statements
                                                                                             .IDENT \1-004\
                                                                                             .PSECT
                                                                                                      _LIB$KEY1$,NOWRT, SHR, PIC,1
                                                                           00000 :TPA$KEYSTO
U.23: BLI
00000 :TPA$KEYST
                                                                                             .BLKB
                                        45 52 49 55 51 45 52
                                                                                   U.25:
                                                                                             .ASCII
                                                                                                       \REQUIRE\
                                                                           00007
                                                                                              .BYTE
```

00008 ; TPASKEYSTO

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 MISSING_FILE_SPEC - signal missing file specifi 14-Sep-1984 13:10:03
                                                                                               VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                                                      Page
                                                                                                                                            (4)
                                                                       U.29:
                                               45 4D 41 4E 00008 TPASKEYST
                                                                       U.31:
                                                                                .ASCII
                                                                                        \NAME\
                                                                 00000
                                                                                 BYTE
                                                                 0000D ; TPASKEYFILL
                                                                       Ù.43:
                                                                                 BYTE
                                                                 0000E
                                                                       ;TPASKEYSTO
                                                                       U.123:
                                  4E 41 45 4C 4F 4F 42
                                                                 0000E : TPASKEYST
                                                                                        \BOOLEAN\
                                                                                .ASCII
                                                                 00015
                                                                                 .BYTE
                                                                 00016
                                                                       :TPASKEYSTO
                                                                       Ù.129:
                                                                                .BLKB
                                                                00016 ; TPASKEYST
                                  43 49 52 45 4D 55 4E
                                                                                         \NUMERIC\
                                                                       U.131:
                                                                                .ASCII
                                                                 0001D
                                                                                .BYTE
                                                                 0001E
                                                                       ; TPASKEYS 10
                                                                       Ú.135: .BLKB
                                       47 4E 49 52 54 53
                                                                 0001E ; TPASKEYST
                                                                       U.137: .ASCII
                                                                                        \STRING\
                                                                 00024 BY1
                                                                                .BYTE
                                                   U.141: .BLKB
44 4E 45 00025 ;TPA$KEYST
                                                                       U.143: .ASCII
                                                                                         \END\
                                                                 00028
00029
                                                                                .BYTE
                                                                       ; TPA$KEYFILL
                                                                       U.151: .BYTE
                                                                                .PSECT _LIB$STATE$, NOWRT, SHR, PIC, 1
                                                                 00000 SMG$$A_STMT_STATES::
                                                                 00000 BEGIN_SCAN:
                                                                                 BLKB
                                                                00000 ; TPASTYPE
                                                          99F8
                                                                       Ŭ.2:
                                                                                 WORD
                                                                                         -26120
                                                          0000+ 00002 TPA$SUBEXP
                                                                                 WORD
                                                                                         <<u.3-U.4>-2>
                                                                       U.4:
                                                      00000000V 00004 TPASACTION
                                                                                         <<SMG$$NEXT_RECORD-U.5>-4>
                                                                       Ú.5:
                                                                                .LONG
                                                          0000+ 00008 ; TPA$TARGET
                                                                                .WORD
                                                                                         <<BEGIN_SCAN-U.6>-2>
                                                                       U.6:
                                                                 0000A ; TPASTYPE
                                                          9021
                                                                                         -28639
                                                      00000000 0000 TPASACTION U.8: LON
                                                                                .LONG
                                                                                         <<SMG$$NEXT_RECORD-U.8>-4>
                                                          0000 + 00010 : TPASTARGET
                                                                       Ŭ.9:
                                                                                         <<BEGIN_SCAN-U.9>-2>
                                                          99F8 00012 TPASTYPE U.10: ...
                                                                                         -26120
                                                          0000+ 00014 :TPA$SUBEXP
                                                                       Ů.12:
                                                                                         <<u.11-u.12>-2>
                                                      00000000 00016 : TPASACTION
                                                                       Ù.13:
                                                                                         <<SMG$$BLANKS_OFF-U.13>-4>
                                                                                .LONG
                                                          0000+ 0001A ; TPASTARGET
                                                                       Ú.14: .WORD
                                                                                         <<BEGIN_SCAN-U.14>-2>
```

: F

SMG 1-0

•

1-004

SMG

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 MISSING_FILE_SPEC - signal missing file specifi 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                                                                                                             Page 14
1-004
                                                                                                    [SMGRTL.SRC]SMGSTATAB.B32:1
                                                                                                                                                   (4)
                                                         00000000 0011C ; TPASACTION
                                                                           U.145: .LONG
                                                                                             <<ZERO_CUR_TERM_DEF-U.145>-4>
                                                             0000+ 00120 ; TPASTARGET
                                                                           U.146: .WORD
                                                                                             <<BEGIN_SCAN-U.146>-2>
                                                                    00122 : TPASTYPE
                                                             81F1
                                                                                             -32271
                                                                           U.147:
                                                                                    .WORD
                                                         00000000V 00124 : TPA$ACTION
                                                                           U.148: .LONG
                                                                                             <<unrecognized_statement-u.148>-4>
                                                                    00128 : TPASTYPE
                                                             85ED
                                                                                    .WORD
                                                                                             -31251
                                                                           U.149:
                                                         OOL OOOOV OO12A : TPASACTION
                                                                           U.150: .LONG
                                                                                             <<unrecognized_statement-u.150>-4>
                                                                                    .PSECT
                                                                                             _LIB$KEYO$, NOWRT, SHR, PIC, 1
                                                                    00000 SMG$$A_STMT_KEYWDS::
                                                                                     BLKB
                                                                    00000 : TPA$KEYO
                                                                           U.1:
                                                                                     .BLKB
                                                                                             0
                                                             0000+ 00000 : TPASKEY
                                                                           U.24:
                                                                                    .WORD
                                                                                             <u.23-u.1>
                                                             0000+ 00002 ;TPASKEY
                                                                           Ú.30:
                                                                                    .WORD
                                                                                             <u.29-u.1>
                                                             0000+ 00004 :TPASKEY
                                                                           U.124:
                                                                                    .WORD
                                                                                             <u.123-u.1>
                                                             0000+ 00006 :TPASKEY
                                                                           U.130:
                                                                                    .WORD
                                                                                             <u.129-u.1>
                                                             0000+ 00008 :TPASKEY
                                                                           U.136:
                                                                                    .WORD
                                                                                             <u.135-u.1>
                                                             0000+ 0000A : TPASKEY
                                                                           U.142: .WORD
                                                                                             <U.141-U.1>
                                                                                    .PSECT
                                                                                             _SMG$DATA,NOEXE, PIC,2
                                                         00000000
                                                                    00000 SMG$$MASK_ADR::
                                                                                     .CONG
                                                                    00004 SMG$$NEXT_NEGATIVE_NUMBER::
                                                         FFFFFFE
                                                                    00008 SMG$$CURRENT_LINE::
                                                         0000000
                                                                    0000C SMG$$CURRENT_BLOCK::
                                                         00000005
                                                                    00010 SMG$$CURRENT_DEF_BLOCK::
                                                         20000002
                                                         00000600
                                                                    00014 SMG$$DATA_OFFSET::
                                                                                    .CONG
                                                                                            1536
                                                                                             LIB$TPARSE, STR$UPCASE
STR$COPY_DX, SMG$_ERRLIN
                                                                                    .EXTRN
                                                                                    .EXTRN
                                                                                             SMG$_ERRAT_LIN, SMG$_FA10PEFIL
                                                                                    .EXTRN
                                                                                             SMG$_MISTERNAM, SMG$_SYNERR
                                                                                    .EXTRN
                                                                                             SMGS UNRECSTA, SMGS MISFILSPE
SMGS MISENDSTA, SMGS MISNAMREQ
                                                                                    .EXTRN
                                                                                    .EXTRN
                                                                                             TERMS TABLE, TERMS NAME
TERMS NUM, SMGSSA BOOLEAN_STATES
SMGSSA_BOOLEAN_KETUDS
                                                                                    .EXTRN
                                                                                    .EXTRN
                                                                                    .EXTRN
                                                                                             SMG$$A_NUMERIC_STATES
                                                                                    .EXTRN
```

SMG\$STATEMENT_T TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 1-004 MISSING_FILE_SPEC - signal missing file specifi 14-Sep-1984 13:10:03 VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1 Page 15 (4) 1-004 SMG\$\$A_NUMERIC_KEYWDS SMG\$\$A_STRING_STATES SMG\$\$A_STRING_KEYWDS .EXTRN .EXTRN .EXTRN .PSECT _SMG\$CODE,NOWRT, SHR, PIC,2 0000 00000 MISSING_FILE_SPEC: WORD Sav Save nothing SMGS MISFILSPE 00000000 00 EF 01 9F 00002 DD 00008 **PUSHAB** 80000 SMG\$\$CURRENT_LINE PUSHL DD ÖÖÖÖE PUSHL 0000000G ŎÒ 9F 00010 SMGS ERRLIN #4, [IB\$STOP **PUSHAB** 0000000G 00 04 FB 00016 CALLS 04 0001D 0431 ; Routine Size: 30 bytes, Routine Base: _SMG\$CODE + 0000

```
N 4
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
1-004 MISSING NAME REQUIRE - missing avanctor
                      TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 MISSING_NAME_REQUIRE - missing expected NAME or 14-Sep-1984 13:10:03
                                                                                                                          VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                            Page 16 (5)
                                                                                                                          [SMGRTL.SRC]SMGSTATAB.B32:1
                      0432
0433
0434
0435
0436
0437
0438
                                 %SBTTL 'MISSING_NAME_REQUIRE - missing expected NAME or REQUIRE'
ROUTINE MISSING_NAME_REQUIRE =
    360
361
    FUNCTIONAL DESCRIPTION:
                                            We come here if there is some statement other than NAME or REQUIRE
                                            starting a definition.
                      0440
                      0441
                                    CALLING SEQUENCE:
                      0442
                                            MISSING_NAME_REQUIRE ();
                      0444
                      0445
                                    FORMAL PARAMETERS:
                      0446
                      0447
                                            NONE
                      0448
                      0449
                                    IMPLICIT INPUTS:
                      0450
                      0451
                                            AP
                                                       Points to TPARSE parameter block
                      0452
0453
    380
381
382
383
384
385
                                    IMPLICIT OUTPUTS:
                      0454
                      0455
                                            NONE
                      0456
0457
                                    COMPLETION STATUS:
                      0458
    386
387
                      0459
                                             SS$_NORMAL
                      0460
    388
                      0461
                                    SIDE EFFECTS:
                      0462
    389
   390
391
                      0464
0465
    392
393
                                       BEGIN
                      0466
                                      BUILTIN
    394
                      1467
                                            AP;
    395
                      0468
    396
397
                      0469
                                            AP : REF BLOCK [,BYTE];
                      0470
                                      SIGNAL_STOP (SMG$_ERRAT_LIN,
3, .SMG$$CORRENT_LINE,
.AP [TPA$L_TOKENENT],
.AP [TPA$L_TOKENPTR],
    398
                      0471
    399
400
401
                      0472
0473
                      0474
    402
                      0475
                                                         SMGS_MISNAMREQ)
                      0476
    404
                                       END:
                                                                                         ! end of routine MISSING_FILE_SPEC
```

0000 00000 MISSING_NAME_REQUIRE:

Save nothing SMGS_MISNAMREQ 000000006 9F 7D 00005 00 **PUSHAB** AC EF 03 80000 16(AP), -(SP) DVOM SMG\$\$CURRENT_LINE 00000000 DD 0000C PUSHL DD 00012 PUSHL

SMG\$STATEMENT_T TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 1-004 MISSING_NAME_REQUIRE - missing expected NAME or 14-Sep-1984 13:10:03 VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1 Page 17 (5) 00000000G 00 9F 00014 06 FB 0001A 04 00021 PUSHAB SMG\$ ERRAT LIN CALLS #6, [IB\$STOP RET : 0477 0000000G 00

Routine Base: _SMG\$CODE + 001E

; Routine Size: 34 bytes,

```
C 5
                                                                           16-Sep-1984 01:19:22
14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                  Page 18
                  PARSE_BOOLEANS - parse boolean capabilities
                                                                                                       [SMGRTL.SRC]SMGSTATAB.B32:1
   406
                            *SBTTL 'PARSE_BOOLEANS - parse boolean capabilities'
                  0479
                            ROUTINE PARSE_BOOLEANS =
                  0480
   409
                  0481
                  0482
   410
                              FUNCTIONAL DESCRIPTION:
   412
                  0484
                                     Parse boolean capabilities by calling LIB$TPARSE with the boolean state tables and keywords. We use separate tables
                  0485
                                     in order to avoid bumping into the 220 keyword limit.
                  0486
   415
                  0487
   416
                  0488
                              CALLING SEQUENCE:
   417
                  0489
                  0490
   418
                                     status = PARSE_BOOLEANS ();
   419
                  0491
                  0492
   420
                              FORMAL PARAMETERS:
                  0494
                                     NONE
                  0495
                  0496
                              IMPLICIT INPUTS:
                  0497
                  0498
                                     AP
                                               Points to TPARSE parameter block
                  0499
                  0500
                              IMPLICIT OUTPUTS:
                  0501
                  0502
                                     NONE
                  0503
                  0504
                              COMPLETION STATUS:
                  0505
                  0506
0507
                                      SS$_NORMAL
                  0508
                              SIDE EFFECTS:
                  0509
                  0510
                  0511
                  0512
0513
                                BEGIN
                                BUILTIN
                  0514
                                     CALLG.
                                     AP:
                                MAP
                                     AP : REF BLOCK [,BYTE];
                                LOCAL
                                     STATUS:
  450
451
452
453
454
                             Should have seen a NAME statement by the time we reach here.
                                 if .ap [param_l_cur_term_def] Eql 0
                                 THEN
                                     SIGNAL_STOP (SMG$_ERRLIN,
1, .5MG$$CURRENT_LINE,
                  0526
  456
457
458
459
                  0528
                                                     SMG$_MISTERNAM);
                  0529
                  0530
                  0531
                              We reuse the same TPARSE parameter block.
                  0532
0533
   460
                                 IF NOT (STATUS = LIBSTPARSE (.AP, SMG$$A_BOOLEAN_STATES, SMG$$A_BOOLEAN_KEYWDS))
   461
   462
```

(6)

SP 1-	MG\$STATEMENT_T -004	TPARS PARSE	E tabl _BOOLE	es for TERMTABLE statements ANS - parse boolean capabilities	D 5 16-Sep-1984 01:19:22 14-Sep-1984 13:10:03	VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1	Page 19 (6)
	463 464 465 466 467	0535 0536 0537 0538 0539	222	THEN SIGNAL_STOP (.STATUS); RETURN (SS\$_NORMAL);			
:	467	0539	Ĭ	END;	! end of routine PARSE	_BOOLEANS	

			0	004	00000	PARSE_B	OOLEANS:	Caus D2		0/70
	52	00000000G 48	00 AC 17	9E 05 12	00002 00009 00000		MOVAB TSTL BNEQ	Save R2 LIB\$STOP, R2 72(AP) 1\$		0479 0524
		000000000	00 E F 01	9F DD DD	0000E 00014 0001A		PUSHAB PUSHL PUSHL	SMG\$ MISTERNAM SMG\$\$CURRENT_LINE #1		0526 0527 0526
	62	00000000G 00000000G	00 04 00	9F FB 9F	0001C 00022 00025	16.	PUSHAB CALLS PUSHAB	SMG\$_ERRLIN #4, [IB\$STOP SMG\$\$A_BOOLEAN_KEYWDS	:	0533
000000006	00	00000000	00 5 C	9F DD	0002B 00031	1 ♥ •	PUSHAB PUSHL	SMG\$\$A_BOOLEAN_STATES AP		0111
00000000	00		03 50 50	FB E8 DD			CALLS BLBS PUSHL	#3, LIB\$TPARSE STATUS, 2\$ STATUS	; ;	0536
	62 50		01 01	f D 00 04	0003F 00042 00045	2\$:	CALLS MOVL RET	#1, LIB\$STOP #1, RO	; ;	0538 0539

; Routine Size: 70 bytes, Routine Base: _SMG\$CODE + 0040

```
5
                                                                       16-Sep-1984 01:19:22
14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                   VAX-11 Bliss-32 V4.0-742
                 PARSE_NUMERICS - parse numeric capabilities
                                                                                                   [SMGRTL.SRC]SMGSTATAB.B32:1
                          *SBTTL 'PARSE_NUMERICS - parse numeric capabilities'
  0541
                          ROUTINE PARSE NUMERICS =
                 0542
                 0544
                           ! FUNCTIONAL DESCRIPTION:
                 0546
0547
                                   Parse numeric capabilities by calling LIB$TPARSE with the
                                   numeric state and keyword tables. We use separate tables
                  0548
                                   in order to avoid bumping into the 220 keyword limit.
                  0549
                 0550
0551
                             CALLING SEQUENCE:
                 0552
0553
                                   status = PARSE_NUMERICS ();
                  0554
                             FORMAL PARAMETERS:
                  0555
                  0556
                                   NONE
                  0557
                  0558
                             IMPLICIT INPUTS:
                  0559
                  0560
                                   AP
                                            Points to TPARSE parameter block
                  0561
                 0562
0563
                             IMPLICIT OUTPUTS:
                  0564
                                   NONE
  494
                  0565
                  0566
                             COMPLETION STATUS:
  496
                 0567
  497
                 0568
                                    SS$_NORMAL
  498
                 0569
  499
                 0570
                            SIDE EFFECTS:
  500
                 0571
                 0572
0573
0574
0575
  501
  502
  503
                               BEGIN
  504
                               BUILTIN
  505
                 0576
                                   AP;
                 0577
  506
                               MAP
  507
                 0578
                                   AP : REF BLOCK [,BYTE];
  508
                 0579
                               LOCAL
                 0580
  509
                                   STATUS:
  510
                 0581
                 0582
0583
  511
  512
                            Should have seen a NAME statement by the time we reach here.
  513
                  0584
  514
                  0585
                               If .AP [PARAM_L_CUR_TERM_DEF] EQL 0
                 0586
0587
  515
                               THEN
  516
517
                                   SIGNAL_STOP (SMG$_ERRLIN,
1, .SMG$$CURRENT_LINE,
                  0588
  518
                  0589
                                                  SMG$_MISTERNAM);
  519
520
521
522
523
524
                  0590
                  0591
                 0592
                            Reuse the same TPARSE parameter block.
                  0594
                               IF NOT (STATUS = LIBSTPARSE (.AP, SMG$$A_NUMERIC_STATES,
                  0595
                                                                SMG$$A_NUMERIC_KEYWDS))
   525
                  0596
                               THEN
```

Page

; F

S1 1-	NG\$STATEMENT_T	TPARS PARSE	E tabl _NUMER	es for TERM ICS - parse	ITAB:	_E statemen meric capab	its Dilit	ies	1	F 5 6-Sep-19 4-Sep-19	984 01:19 984 13:10	:22 VAX-11 Bliss: :03 [SMGRTL.SRC]	-32 V4.0-742 SMGSTATAB.B32;1	Page 21 (7)
•	526 527 528 529	0597 0598 0599 0600	2221	SIGNAL RETURN (SS END;	_	OP (.STATUS ORMAL);	i);		!	end of	routine	PARSE_NUMERICS		
					62	00000000					IUMERICS: .WORD MOVAB	Save R2		; 0541
					76	00000000G	00 AC 17	12	00002 00009 0000C		TSTL BNEQ	LIB\$STOP, R2 72(AP) 1\$		0585
						00000000	00 EF 01	9F DD DD	0000E 00014 0001A 0001C 00022		PUSHAB PUSHL PUSHL PUSHAB	SMG\$ MISTERNAM SMG\$\$CURRENT_LINE #1		0587 0588 0587
					62	00000000G 00000000G	004000C300011	9F FB 9F 9F	00022 00025 00028	1\$:	CALLS PUSHAB PUSHAB	SMGS_ERRLIN #4, [IB\$STOP SMG\$\$A_NUMERIC_KEY! SMG\$\$A_NUMERIC_STA	WDS Tes	0594
				000000006	00 05		5 C 03 50	DD FB E8	00031 00033		PUSHL CALLS BLBS	AP #3, LIB\$TPARSE STATUS, 2\$		
					62 50		50 01 01	DD FB DO	0003D	25.	PUSHL CALLS MOVL	STATUS #1, LIB\$STOP #1, RO		0597 0599
					, ,		•	04	00045		RET	* 1 , NV		; 0600

; Routine Size: 70 bytes, Routine Base: _SMG\$CODE + 0086

.

```
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                  TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 PARSE_REQUIRE - parse definitions in REQUIRE fi 14-Sep-1984 13:10:03
                                                                                                      VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC1SMGSTATAB.B32;1
                         1 %SBTTL 'PARSE_REQUIRE - parse definitions in REQUIRE file'
   0602
                           ROUTINE PARSE REQUIRE =
                  0604
                         1
                  0605
                             FUNCTIONAL DESCRIPTION:
                  0606
                  0607
                                     In order to parse the definitions contained in a REQUIRE file,
                  0608
                                     we call ourselve recursively. Notice that the REQUIRE file may
                  0609
                                     contain another REQUIRE statement, etc.
                  0610
                  0611
                              CALLING SEQUENCE:
                  0612
                                     status = PARSE_REQUIRE ();
                  0614
                  0615
                              FORMAL PARAMETERS:
                  0616
                  0617
                                     NONE
                  0618
                  0619
                              IMPLICIT INPUTS:
                  0620
                  0621
                                     AP
                                              Points to TPARSE parameter block
                  0622
                              IMPLICIT OUTPUTS:
                  0624
0625
                                     NONE
  556
557
                  0626
0627
                              COMPLETION STATUS:
   558
                  0628
                  0629
   559
                                      SSS_NORMAL
                  0630
   560
   561
                  0631
                             SIDE EFFECTS:
                  0632
0633
  562
   563
                  0634
   564
   565
                                BEGIN
                  0636
0637
   566
                                BUILTIN
   567
                                     CALLG.
                  0638
   568
                                     AP;
                  0639
                                MAP
   569
   570
                  0640
                                     AP : REF BLOCK [,BYTE];
                  0641
   571
                                LOCAL
                                    REQUIRE_FAB : $FAB_DECL,
REQUIRE_RAB : $RAB_DECL,
SAVED_FAB,
                  0642
   572
                                                                            FAB for required file
   573
                                                                             RAB for required file
   574
                  0644
                                                                            addr of original FAB
                                     SAVED_RAB,
SAVED_CUR_LINE,
TEMP_BUFFER: VECTOR [255,BYTE],
   575
                  0645
                                                                            addr of original FAB
                  0646
   576
                                                                            cur line in original file
   577
                  0647
                                                                            buffer to hold records
   578
                  0648
                                     OPEN STATUS,
CLOSE STATUS,
                                                                            status retd by $OPEN
   579
                  0649
                                                                            status retd by $CLOSE
                  0650
   580
                                     STATUS:
                                                                            status retd by called routines
                  0651
   581
                  0652
0653
   582
   583
                             In order to parse records from a different file, we need to reset the
                             FAB and RAB fields stored in the TPARSE parameter block. We save the
   584
                  0654
   585
                  0655
                              addresses of the original FAB and RAB so that we can continue reading
                  0656
0657
   586
                              those records when we are done here.
   587
```

Page

```
PARSE_REQUIRE - parse definitions in REQUIRE fi 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                                                                  Page 23 (8)
                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                       [SMGRTL.SRC]SMGSTATAB.B32:1
   588
589
590
                  0658
0659
                                 SAVED_FAB = .AP [PARAM_A_TXT_FAB];
SAVED_RAB = .AP [PARAM_A_TXT_RAB];
                   0660
   591
                  0661
                                 SAVED_CUR_LINE = .SMG$$CORRENT_LINE;
   592
593
                  0662
0663
                                                                    remember where we are in first file
                                $FAB_INIT (FAB = REQUIRE_FAB, FNS = .AP [PARAM_L SAVED_TOKENENT],
FNA = .AP [PARAM_L SAVED_TOKENSTR], DNM = '.TXT',
FAC = GET, SHR = GET, ORG = SEQ);
   594
                P 0664
   595
                   0665
   596
                   0666
   597
                  0667
                                 IF NOT (OPEN_STATUS = SOPEN (FAB = REQUIRE_FAB))
   598
                   0668
                                 THEN
                                     SIGNAL_STOP (SMG$_FAIOPEFIL, 2, .AP_[TPA$L_TOKENCHT],
   509
                  0669
   600
                   0670
                                                     .AP [TPA$L_TORENPTR],
   601
                   0671
                  0672
0673
                                                     .OPEN_STATUS);
   602
   603
   604
                  0674
                                    [PARAM_L_SAVED_TOKENINT] = 0;
   605
                  0675
                                 AP [PARAM_L_SAVED_TOKENSTR] = 0;
                                                                  ! re-init
   606
                  0676
   607
                  0677
                  0678
   608
                  0679
   609
                            ! Connect a RAB to the FAB so we can access the file.
   610
                  0680
                  0681
   611
                  0682
0683
   612
                                $RAB_INIT (RAB = REQUIRE_RAB, FAB = REQUIRE_FAB);
   613
                  0684
   614
                                $CONNECT (RAB = REQUIRE_RAB);
                  0685
   615
   616
                  0686
                                REQUIRE_RAB [RAB$W_USZ] = 255;
   617
                  0687
                                 REQUIRETRAB [RAB$LTUBF] = TEMP_BUFFER [0];
   618
                  0688
                                                                  ! set up buffer for RMS to use
                  0689
   619
   620
                  0690
                            ! Put the new FAB and RAB into the parameter block.
                  0691
   621
                  0692
0693
   622
   623
                                 AP [PARAM_A_TXT_FAB] = REQUIRE_FAB;
                  0694
   624
                                 AP [PARAM_A_TXT_RAB] = REQUIRE_RAB;
   625
                  0695
   626
627
                  0696
                  0697
                            ! Call ourself recursively, reusing the current TPARSE block.
   628
                  0698
                  0699
   630
                  0700
                                 IF NOT (STATUS = LIBSTPARSE (.AP, SMG$$A_STMT_STATES,
   631
632
633
                   0701
                                                                   SMG$$A_STMT_KEYWDS))
                  0702
0703
                                     SIGNAL_STOP (.STATUS);
   634
635
                   0704
                   0705
                  0706
0707
0708
0709
   636
637
                            ! Restore the original FAB and RAB addresses to the parameter block.
   638
   639
                                 AP [PARAM_A_TXT_FAB] = .SAVED_FAB;
                   0710
   640
                                 AP [PARAM_A_TXT_RAB] = .SAVED_RAB;
                   0711
   641
                  0712
0713
                                 SMG$$CURRENT_LINE = .SAVED_CUR_LINE;
   643
```

SMG\$STATEMENT	_T TPARSE	table REQUI	es for TERM RE - parse	ITABI de f	E stat	emen s in	its REQ	UIRE	10 E fi 10	5 5-Sep-19 4-Sep-19	84 01:19 84 13:10	0:22 VAX-11 Bliss-32 V4.0-742 0:03 [SMGRTL.SRC]SMGSTATAB.B32:1	Page 24 (8)
645 646 647 648 649 650 651 653 655 655 657 658	0715 0716 0717 0718 0719 0720 0721 0722 0723 0724 0725 0726 0727		IF NOT (CL THEN SIGNAL et the next CALLG (.AP RETURN (SS END;	OSE, _ST(re(STATUS OP (.CL cord fr	= \$ OSE_ om t T_RE	CLOS STAT	E (f US);	FAB = (; inal do	finitio	n file.	PARSE_REQUIRE	
					54	58	54	2E	000cc	P.AAA:	.ASCII	SYS\$OPEN, SYS\$CONNECT	;
0050 8 F		00	B0 C6 CF DC E0 E4 E5	59 55 5 5 6 AD ADD ADD ADD ADD ADD ADD ADD ADD AD	000000 FE 50 02	00G 6C 24 28 B0 03	EOCACAODFFD2CFC4D1	999000C 000400E009FB	00009 000019 000019 000019 000027 000027 000038 000046 00044 000452	PARSE_R	MOVAB MOVAB MOVAB MOVAB MOVL MOVL MOVC5 MOVW CLRB MOVB MOVAB MOVB MOVB PUSHAB CALLS	Save R2,R3,R4,R5,R6,R7,R8,R9,R10 SMG\$\$CURRENT_LINE, R10 LIB\$STOP, R9 -404(SP), SP 36(AP), SAVED_FAB 40(AP), SAVED_RAB SMG\$\$CURRENT_LINE, SAVED_CUR_LINE #0, (SP), #0, #80, \$RMS_PTR #20483, \$RMS_PTR #514, \$RMS_PTR+22 \$RMS_PTR+29 #2, \$RMS_PTR+29 #2, \$RMS_PTR+44 P.AAA, \$RMS_PTR+48 84(AP), \$RMS_PTR+52 #4, \$RMS_PTR+53 REQUIRE_FAB #1, SYS\$OPEN	0602 0659 0660 0661 0665
0044 8F		00	FF6C A8 00000000G 8C	11 7E 69 6E CD AD 00 AD	000000 FF 44 FF	54 60 01	50 60 60 60 60 60 60 60 60 60 60 60 60 60	EBD7DDFFB7CCB9FFB	00059 0005E 00062 0006A 0006D 00077 0007A 0008A	1\$:	BLBS PUSHL MOVQ PUSHL PUSHAB CALLS CLRQ MOVC5 MOVAB PUSHAB CALLS MOVZBW	OPÉN_STATUS, 1\$ OPEN_STATUS 16(AP), -(SP) #2 SMG\$ FAIOPEFIL #5, [IB\$STOP 84(AP) #0, (SP), #0, #68, \$RMS_PTR #17409, \$RMPTR REQUIRE_FAB, \$RMS_PTR+60 REQUIRE_RAB #1, SYS\$CONNECT #255, REQUIRE_RAB+32	0672 0670 0669 0674 0682

SM(1-(

SMG\$STATEMENT_T TPARSE tables for TERM 1-004 PARSE_REQUIRE - parse	MTABLE defin	statements itions in R	EQU	IRE fi 1	J 5 16-Sep-1984 01:19 14-Sep-1984 13:10	:22 VAX-11 Bliss-32 V4.0-742 Pag :03 [SMGRTL.SRC]SMGSTATAB.B32;1	ge 25 (8)
90 24 28	AD AC AC	B0 # FF6C 0 0000 0	EDD	9E 00096 9E 00096 9E 00096 9F 000A5	9 PUSHAB	REQUIRE_FAB, 36(AP) REQUIRE_RAB, 40(AP) SMG\$\$A_STMT_KEYWDS SMG\$\$A_STMT_STATES	0687 0693 0694 0700
0000000G	00 05		0 1	DD 000AD FB 000AF EB 000B6 DD 000B9	F CALLS 6 BLBS 9 PUSHL	AP #3, LIB\$TPARSE STATUS, 2\$ STATUS	0703
24 28	69 AC AC 6A	55	FC 1300 100 100 100 100 100 100 100 100 10	FB 000BE D0 000BE D0 000C2 D0 000C6 9F 000C9	E 2\$: MOVL 2 MOVL 6 MOVL	#1, LIB\$STOP SAVED_FAB, 36(AP) SAVED_RAB, 40(AP) SAVED_CUR_LINE, SMG\$\$CURRENT_LINE REQUIRE_FAB #1, SYS\$CLOSE	0709 0710 0712
0000000G	00 05	B0 A	60 I	9F 000C9 FB 000C0 E8 000D3 DD 000D6	C CALLS 3 BLBS	#1, SYS\$CLOSE CLOSE_STATUS, 3\$ CLOSE_STATUS	0718 0720
0000v	69 (F 50	Č 6)1	FB 000D8 FA 000D8 D0 000E0 04 000E3	B CALLS CALLG MOVL	#1, LIB\$STOP (AP), SMG\$\$NEXT_RECORD #1, RO	0726 0728 0729

; Routine Size: 228 bytes, Routine Base: _SMG\$CODE + 00D0

```
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                         16-Sep-1984 01:19:22
14-Sep-1984 13:10:03
                                                                                                    VAX-11 Bliss-32 V4.0-742
                  PARSE_STRINGS - parse string capabilities
                                                                                                    [SMGRTL.SRC]SMGSTATAB.B32:1
                  0730
0731
0732
0733
                           XSBTTL 'PARSE_STRINGS - parse string capabilities'
ROUTINE PARSE_STRINGS =
   662
663
   664
                  0734
0735
                           ! FUNCTIONAL DESCRIPTION:
   665
   666
                  0736
0737
   667
                                    Parse string capabilities by calling LIB$TPARSE with the string
   668
                                    state and keyword tables. We use separate tables to avoid bumping
                  0738
   669
                                    into the 220 keyword limit.
                  0739
   670
   671
                  0740
                             CALLING SEQUENCE:
  672
673
                  0741
                  0742
                                    status = PARSE_STRINGS ();
   675
                  0744
                             FORMAL PARAMETERS:
                  0745
   676
                  0746
  677
                                    NONE
                  0747
  678
                  0748
  679
                             IMPLICIT INPUTS:
                  0749
   680
                  0750
  681
                                    AP
                                             Points to TPARSE parameter block
                  0751
   682
                  0752
0753
  683
                             IMPLICIT OUTPUTS:
   684
                  0754
  685
                                    NONE
                  0755
  686
                  0756
                             COMPLETION STATUS:
  687
                  0757
  688
                  0758
  689
                                     SS$_NORMAL
                  0759
  690
  691
                  0760
                             SIDE EFFECTS:
  692
                  0761
                 0762
0763
  693
  694
  695
                  0764
                               BEGIN
  696
                  0765
                               BUILTIN
  697
                  0766
                                    AP;
  698
                  0767
  699
                  0768
                                    AP : REF BLOCK [,BYTE];
   700
                  0769
                               LOCAL
   701
                                    STATUS:
   702
                  0771
   703
                  0772
   704
                             Should have seen a NAME statement by the time we reach here.
   705
                  0774
                  0775
   706
                                If .AP [PARAM_L_CUR_TERM_DEF] EQL 0
   707
                  0776
                               THEN
                                    SIGNAL_STOP (SMG$_ERRLIN,
1, .5MG$$CURRENT_LINE,
   708
                  0777
   709
                  0778
   710
                  0779
                                                   SMG$_MISTERNAM);
                  0780
   711
   712
713
                  0781
                 0782
0783
                             Reuse the same TPARSE block.
   714
   715
                  0784
                                IF NOT (STATUS = LIBSTPARSE (.AP, SMG$$A STRING STATES,
                  0785
   716
                                                                 SMG$$A_STRING_KEYWDS))
  717
                  0786
                                THEN
```

Page 26 (9)

: 1

SMG\$STATEMENT_T TPARSE table 1-004 PARSE_STRING ; 718	les for TERMTABLE statemen NGS - parse string capabil SIGNAL_STOP (.STATUS RETURN (SS\$_NORMAL); END;	ities 14-Sep-1984 13:10:03 [SMGRTL.SRC]SMGSTATAB.B32;1	Page 27 (9)
	52 000000006 0000000006 000000006 00000000	0004 00000 PARSE_STRINGS: .WORD Save R2 00 9E 00002 MOVAB LIB\$STOP, R2 AC D5 00009 TSTL 72(AP) 17 12 0000C BNEQ 1\$ 00 9F 0000E PUSHAB SMG\$ MISTERNAM EF DD 00014 PUSHL SMG\$\$CURRENT_LINE 01 DD 0001A PUSHL N1 00 9F 0001C PUSHAB SMG\$ ERRLIN 04 FB 00022 CALLS N4, [IB\$\$TOP 00 9F 00025 1\$: PUSHAB SMG\$\$A_\$TRING_KEYWDS 00 9F 0002B PUSHAB SMG\$\$A_\$TRING_STATES 5C DD 00031 PUSHL AP 03 FB 00033 CALLS N3, LIB\$TPARSE 5C DD 00031 PUSHL STATUS, 2\$ 50 DD 0003D PUSHL STATUS, 2\$ 50 DD 0003D CALLS N1, LIB\$\$TOP 01 FB 0003F CALLS N1, LIB\$\$TOP	0731 0775 0777 0778 0777 0784

; Routine Size: 70 bytes. Routine Base: _SMG\$CODE + 01B4

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SEARCH_KNOWN_TYPES - search table of known term 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                                       VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                                                       Page 28 (10)
                                **XSBTTL 'SEARCH_KNOWN_TYPES - search table of known terminal types' ROUTINE SEARCH_KNOWN_TYPES =
   0792
0793
                     0794
                     0795
                                  FUNCTIONAL DESCRIPTION:
                     0796
0797
                                          Search a table of DEC terminals to see if the user is using a known terminal name in his definition. (SMG will define DEC terminals - users shouldn't but just in case...) We want to
                     0798
                     0799
                     0800
                                           assign the positive DTS_xx type instead of a negative number
                     0801
                                           for DEC terminals.
                     0802
                                   CALLING SEQUENCE:
                     0804
                     0805
                                          status = SEARCH_KNOWN_TYPES ();
                     0806
0807
                                   FORMAL PARAMETERS:
                     0808
                     0809
                                          NONE
                     0810
                     0811
                                   IMPLICIT INPUTS:
                     0812
0813
                                          AP
                                                     Points to TPARSE parameter block
                     0814
0815
                                   IMPLICIT OUTPUTS:
                     0816
0817
   749
750
751
752
753
754
756
757
758
759
                                          NONE
                     0818
                     0819
                                   COMPLETION STATUS:
                     0820
                     0821
                                            SS$_NORMAL
                     0822
                                  SIDE EFFECTS:
                     0824
0825
                     0826
0827
                                     BEGIN
                     0828
   760
                                     BUILTIN
   761
                     0829
                                          CALLG.
                     0830
   762
                                          AP:
   763
                     0831
                                     MAP
                     0832
0833
   764
                                          AP : REF BLOCK [, BYTE];
   765
   766
                     0834
                                          TYPE : INITIAL (-1),
                                                                                        terminal type
   767
                     0835
                                          PTR UPCASED NAME.
                                                                                        addr of upcased terminal name ptr to RAB for TERMTABLE.TXT
                     0836
0837
   768
                                           TXT_RAB : REF $RAB_DECL;
   769
                                     MACRO
   770
                     0838
                                          TERM$B_TYPE = 1, 0, 8, 0%;
   771
772
773
774
775
                     0839
                     0840
                     0841
                                  The saved tokenptr points to the user's original text. For comparison
                     0842
0843
                                   purposes, we need to look at the upcased version. So index into upcased
                                   buffer.
                     0844
0845
                                     TXT_RAB = .AP [PARAM_A_TXT_RAB];
                     0846
0847
   779
                                     PTR_UPCASED_NAME = .TXT_RAB [RAB$L_UBf] +
```

```
5
                    TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SEARCH_KNOWN_TYPES - search table of known term 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                                  VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                                                 Page 29 (10)
1-004
                    0848
0849
                                                             (.AP [PARAM_L_SAVED_TOKENSTR] - .AP [PARAM_L_ORIG_(XT]);
   781
783
784
786
786
788
788
789
791
793
                    0850
                    0851
                               ! Search table of names indexed by type.
                    0852
0853
                                    INCR INDEX FROM 0 TO TERMS_NUM -1 DO
                    0854
                                         BEGIN
                    0855
                                         BIND
                                         NAME = .TERM$_NAME [.INDEX] : $BBLOCK;

IF CH$EQL (.AP [PARAM_L_SAVED_TOKENCHT], .PTR_UPCASED_NAME,
.AP [PARAM_L_SAVED_TOKENCHT], .NAME [DSC$A_POINTER])
                    0856
                    0857
                    0858
                    0859
                                         THEN
                    0860
                                              TYPE = .TERM$_TABLE [.INDEX, TERM$B_TYPE]; EXITLOOP;
                    0861
                    0862
0863
   794
   795
                                              END;
   796
797
                    0864
                                         END:
                                                                                   ! end of INCR loop
                    0865
   798
                    0866
   799
                    0867
                                 If we found the name, then use its type number. If we exit this routine
   800
                    0868
                                 without a type, the caller (START_NEW_TERM_DEF) will assign a negative
   801
                    0869
                                 terminal number.
   802
803
                    0870
                    0871
                    0872
0873
   804
                                    IF .TYPE NEQ -1
   805
                                    THEN
   806
                    0874
                                         BEGIN
                    0875
                                         AP [TPA$L_NUMBER] = .TYPE;
   807
   808
                    0876
                                         CALLG (.AP, SMG$$FLUSH_NUMERIC);
                                                                                             ! put type into data buffer
   809
                    0877
   810
                    0878
                                         RETURN (SS$_NORMAL);
   811
                    0879
                                         END
  812
813
                    0880
                                    ELSE
                    0881
                                         RETURN (0):
                                                                                   ! tell caller to assign negative number
                    0882
   814
   815
                    0883
                                    END:
                                                                                   ! end of routine SEARCH_KNOWN_TYPES
                                                                       OOFC 00000 SEARCH_KNCWN_TYPES:
                                                                                                                                                                      0792
0827
                                                                                                . WORD
                                                                                                          Save R2,R3,R4,R5,R6,R7
                                                                                                          #1, TYPE

40(AP), TXT_RAB

92(AP), 88(AP), R1

36(TXT_RAB), R1, PTR_UPCASED_NAME

TERM$_NUM-1, R5
                                                  57
50
                                                                    01
                                                                                                MNEGL
                                                              28
50
                                                                         ĎŎ
                                                                             00005
                                                                                                                                                                      0845
                                                                    AC
                                                                                                MOVL
                                                  AC
51
55
54
                                            58
                                                                    AC
                                                                          C3
                                                                             00009
                                                                                                                                                                      0848
                                                                                                SUBL 3
                                                                         ČÍ
9E
                                56
                                                                     A0
                                                                             0000F
                                                                                                ADDL3
                                                      0000000G
                                                                    00
                                                                             00014
                                                                                                MOVAB
                                                                                                                                                                      0853
                                                                     01
                                                                          CE
                                                                                                          #1, INDEX
                                                                             0001B
                                                                                                MNEGL
                                                                                                                                                                      0857
                                                                          11
                                                                             0001E
                                                                                                BRB
                                                                         00 00020 1$:
29 00028
12 0002E
C5 00030
9A 00034
                                                      00000000G0044
                                                                                                MOVL
                                                                                                                                                                      0856
                                                                                                          TERMS NAME[INDEX], RO
                          04
                                                              54
                                                                                                CMPC3
                                                                                                          84(AP), (PTR_UPCASED_NAME), 24(RO)
                                B0
                                                                    AC
                                                                                                                                                                      0857
                                                                     0E
                                                                                                BNEQ
                                50
                                                                     10
                                                                                                MULL 3
                                                                                                          #28, INDEX, RO
                                                                                                                                                                      0861
                                                  57 0000000000040
                                                                                                          TERMS_TABLE+1[RO], TYPE
                                                                                                MOVZBL
                                                                    04
55
                                                                          11
                                                                             00030
                                                                                                BRB
                                                                                                                                                                      0860
                                                  54
                                                                         F3 0003E 2$:
                                DE
                                                                                                AOBLEQ
                                                                                                          R5, INDEX, 1$
                                                                                                                                                                      0853
```

; F

SMG\$STATEMENT_T	TPARSE tables for TERM SEARCH_KNOWN_TYPES - s	NTABLE search	statements table of known	n term	B 6 16-Sep-1 14-Sep-1	984 01:19 984 13:10	2:22	VAX-11 Bliss-32 V4.0-742 ESMGRTL.SRCJSMGSTATAB.B32;1	Page 30 (10)
	FFFFFFF	8F		D1 0004	2 3\$:	(MPL REQI	TYPE,	#−1	: 0872
	0000v	AC CF 50	6C 01	13 0004 DO 0004 FA 0004 DO 0005 04 0005	F 4	CMPL BEQL MOVL CALLG MOVL RET	TYPE.	28(AP) SMG\$\$FLUSH_NUMERIC O	0875 0876 0881
			50 1	04 0005 04 0005	8 45:	CLRL RET	RO		. 0883

; Routine Size: 91 bytes, Routine Base: _SMG\$CODE + 01FA

```
TP' E tables for TERMTABLE statements 16-Sep-1984 01:19:22 STANT_NEW_TERM_DEF - Start of a term def, init 14-Sep-1984 13:10:03
SMG$STATEMENT_T TP' E tables for TERMTABLE statements
                                                                                                                     VAX-11 Bliss-32 V4.0-742
1-004
                                                                                                                     [SMGRTL.SRC]SMGSTATAB.B32:1
                               **SBTTL 'START_NEW_TERM_DEF - Start of a term def, init fields' ROUTINE START_NEW_TERM_DEF =
                     0885
                     0886
0887
   819
   821
823
823
825
                     8880
                                  FUNCTIONAL DESCRIPTION:
                     0889
                     0890
                                          We are at the beginning of a terminal definition (ie. we just encountered a NAME field). We need to begin a new block, make an entry into the terminal definition index, and initialize
                     0891
                     0892
0893
                                          some fields preceeding the capability pointers.
   827
                     0894
                     0895
0896
0897
                                  CALLING SEQUENCE:
   829
830
                                          status = START_NEW_TERM_DEF ();
   831
                     0898
                     0899
0900
                                  FORMAL PARAMETERS:
   833
   834
                     0901
                                          NONE
                     0902
0903
0904
   835
                                  IMPLICIT INPUTS:
   837
   838
                     0905
                                          AP
                                                     Points to TPARSE parameter block
                     0906
   839
                     0907
   840
                                  IMPLICIT OUTPUTS:
                     0908
   841
                     0909
                                          NONE
   843
                     0910
   844
                     0911
                                  COMPLETION STATUS:
                     0912
0913
   845
   846
                                           SS$_NORMAL
   847
                     0914
   848
                     0915
                                  SIDE EFFECTS:
                     0916
   849
   850
                     0917
                     0918
   852
                     0919
                                     BEGIN
   853
                     0920
                                     BUILTIN
   854
                     0921
                                          CALLG.
                     0922
0923
   855
                                          AP;
   856
                                     MAP
   857
                     0924
                                          AP : REF BLOCK [,BYTE];
   858
                     0925
                                          TERM_INDEX : REF VECTOR [,BYTE], ! addr of terminal def index CUR_INDEX_BYTE; ! first available byte
                     0926
   859
                     0927
                                          CUR_INDEX_BYTE;
   860
                     0928
   861
                                    TERM_INDEX = .AP [PARAM_A_TERM_INDEX];
CUR_INDEX_BYTE = .AP [PARAM_L_TERM_INDEX_SIZE];
                     0929
   862
                     0930
   863
                     0931
   864
                     0932
   865
                     0933
                               ! If there is a current terminal definition, then there must be two
   866
                     0934
   867
                                  NAMEs with no intervening END.
                     0935
   868
   869
                     0936
                                     If .AP [PARAM_L_CUR_TERM_DEF] NEQ 0
   870
                     0937
   871
                     0938
                                          SIGNAL_STOP (SMG$_ERRLIN, 1, .5MG$$CURRENT_LINE,
                     0939
   873
                     0940
                                                            SMG$_MISENDSTA);
```

Page 31 (11)

; F

•

CALLG (.AP, SMG\$\$FLUSH_NUMERICT;

.......

				0	1 F C	00000	START	_NEW_TERM_I	DEF:	
		58		EF	9E	00002		.WORD MOVAB	Save R2,R3,R4,R5,R6,R7,R8 SMG\$\$NEXT_NEGATIVE_NUMBER R8	: 0885 :
		56 57	44	AC AC	DO	00009 0000D		MOVL Movl	SMG\$\$NEXT_NEGATIVE_NUMBER R8 68(AP), TERM_INDEX_ 64(AP), CUR_INDEX_BYTL	: 0929
			48	AC 18	D5 13	00011		TSTL BEQL	72(AP) 1\$	0936
			00000000G	00 88	9F	00016 00010		PUSHAB PUSHL	SMG\$_MISENDSTA	: 0938
			_	01	DD	0001F		PUSHL	SMG\$\$CURRENT_LINE	; 0938
	000000006	_00	00000006	00 04	FB	00021 00027		PUSHAB CALLS	SMG\$_ERRLIN #4, [IB\$STOP	
6746	5 8	3746 BC	54 54	A C	90 28	0002E 00033	15:	MOVB MOVC3	SMG\$ ERRLIN #4, [IB\$STOP 84(AP), (CUR_INDEX_BYTE)+[TERM_INDEX] 84(AP), @88(AP), (CUR_INDEX_BYTE)- [TERM_INDEX] 84(AP), CUR_INDEX_BYTE SMG\$\$CURRENT_DEF_BLOCK, (CUR_INDEX_BYTE)- [TERM_INDEX] 1(R7), 64(AP) 52(AP), 72(AP) 72(AP), CUR_TERM_DEF #137, (CUR_TERM_DEF) 80(AP), SAVED_CAP_NUMBER #227, 80(AP) (AP), SEARCH_KNOWN_TYPES R0, TYPE_FOUND R0, 2\$: 0948
		57	54	AC	co	0003A		ADDL2	[TERM_INDEX] 84(AP), CUR_INDEX_BYTE	0954
	•	5746	ŎĊ	A8	90	OCO3E		MOVB	SMG\$\$CURRENT_DEF_BLOCK, (CUR_INDEX_BYTE)-	0956
	40 48	A C	01 34	A7 AC	9E	00043 00048		MOVAB	1(R7), 64(AP)	: 0959
	40	50	48	AC	DO	0004D		MOVL MOVL	72(AP), CUR_TERM_DEF	: 0966
		60 52 AC	48 89 50 E3	8F AC	DO	00051 00055		MOVZBW Movl	80(AP), SAVED_CAP_NUMBER	; 0981 ; 0990
	50 FF42	CF	£3	8F 6C	FA	00059 0005E		MOVZBL Callg	M227, 80(AP) (AP), SEARCH KNOWN TYPES	: 0991
		51 0B		50 50	DO	00063 00066		MOVL Blbs	RO, TYPE_FOUND TRO: 2\$	
	1 C 0000 V	OB AC CF		68 60	DO	00069 0006D		MOVL CALLG	RO, 2\$ SMG\$\$NEXT_NEGATIVE_NUMBER, 28(AP) (AP), SMG\$\$FLUSH_NUMERIC SMG\$\$NEXT_NEGATIVE_NUMBER SAVED_CAP_NUMBER, 80(AP)	0996 0997
	50			68 52	D7	00072	76 .	DECL	SMG\$\$NEXT_NEGATIVE_NUMBER	: 0998
	3 0	AC 50		01	DO	00074 00078	∠ ≱;	MOVL MOVL	#1, RO	: 1001
					04	0007B		RET		; 1007

; Routine Size: 124 bytes, Routine Base: _SMG\$CODE + 0255

```
6
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 1-004 UNRECOGNIZED_STATEMENT - signal UNRECSTA error 14-Sep-1984 13:10:03
                                                                                                             VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                                         Page 34 (12)
                             **SBTTL 'UNRECOGNIZED_STATEMENT - signal UNRECSTA error' ROUTINE UNRECOGNIZED_STATEMENT =
                   1009
                   1010
                   1011
                   1012
1013
1014
1015
                                FUNCTIONAL DESCRIPTION:
                                       We just found something that isn't one of the statements we know -
                                       complain.
                   1016
                                CALLING SEQUENCE:
                   1018
                                       UNRECOGNIZED_STATEMENT ();
                   1020
                   1021
                                FORMAL PARAMETERS:
                   1022
                                       NONE
                   1024
                                IMPLICIT INPUTS:
                   1026
   960
   961
                                       AP
                                                 Points to TPARSE parameter block
                   1028
   962
   963
                                IMPLICIT OUTPUTS:
   964
                   1030
   965
                   1031
                                       NONE
                   1032
   966
   967
                                COMPLETION STATUS:
                   1034
   968
   969
                                        SS$_NORMAL
   970
                   1036
   971
                   1037
                                SIDE EFFECTS:
   972
                   1038
   973
                   1039
   974
                   1040
   975
                   1041
                                  BEGIN
                   1042
   976
                                  BUILTIN
   977
                                       AP;
   978
                   1044
                                  MAP
   979
                   1045
                                       AP : REF BLOCK [,BYTE]:
   980
                   1046
   981
                   1047
                                  SIGNAL_STOP (SMG$_ERRLIN,
   982
                   1048
   983
                   1049
                                                   .$MG$$CURRENT_LINE,
                                                 SMG$_UNRECSTA)
   984
                   1050
   985
                   1051
   986
                   1052
                                  END;
                                                                               ! end of routine UNRECOGNIZED_STATEMENT
```

0000 00000 UNRECOGNIZED STATEMENT: .WORD Save no Save nothing SMG\$_UNRECSTA SMG\$\$CURRENT_LINE \$0000 \$0000 **PUSHAB** DD PUSHL ÖÖÖÖE DD PUSHL SMG\$ ERRLIN #4, [IB\$STOP

...............

1009

1047

1049

1047

0000000G 00 9F 00010 **PUSHAB** 0000000G 00 FB 00016 CALLS

0000000G

SMG\$STATEMENT_T TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 1-004 UNRECOGNIZED_STATEMENT - signal UNRECSTA error 14-Sep-1984 13:10:03 VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1

; 1052

Page 35 (12)

04 0001D

RET

; Routine Size: 30 bytes, Routine Base: _SMG\$CODE + 02D1

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 ZERO_CUR_TERM_DEF - zero the current terminal d 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                      VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
   988
989
                           *SBTTL 'ZERO_CUR_TERM_DEF - zero the current terminal definition pointer'
                  1054
1055
1056
1057
1058
1059
                           POUTINE ZERO_CUR_TERM_DEF =
   990
   991
                              FUNCTIONAL DESCRIPTION:
   994
                                     We just encountered an END statement - mark that there is no
                  1060
   995
                                     current terminal definition so that capabilities will not be
   996
                                     accepted before a new NAME statement is encountered.
                  1062
   997
   998
                              CALLING SEQUENCE:
   999
                  1064
  1000
                  1065
                                     status = ZERO_CUR_TERM_DEF ();
                  1066
 1001
 1002
                              FORMAL PARAMETERS:
                  1068
 1003
                  1069
 1004
                                     NONE
 1005
                  1070
                  1071
 1006
                              IMPLICIT INPUTS:
                  1072
 1007
 1008
                                     AP
                                              Points to TPARSE parameter block
 1009
                  1074
                  1075
 1010
                              IMPLICIT OUTPUTS:
                  1076
 1011
                  1077
 1012
                                     NONE
 1013
                  1078
                  1079
 1014
                              COMPLETION STATUS:
 1015
                  1080
                  1081
 1016
                                      SS$_NORMAL
                  1082
 1017
                  1083
 1018
                              SIDE EFFECTS:
                  1084
 1019
 1020
                  1085
                  1086
 1021
 1022
                  1087
                                BEGIN
 1023
                  1088
                                BUILTIN
 1024
                  1089
                                     CALLG.
 1025
                  1090
                                     AP;
 1026
                  1091
                                MAP
 1027
                  1092
                                     AP : REF BLOCK [,BYTE];
                  1093
 1028
                                LOCAL
                  1094
 1029
                                     BINARY_RAB : REF $RAB_DECL;
                                                                          ! point to RAB
                  1095
 1030
 1031
                  1096
                  1097
 1032
                              Move the previous definition to TERMTABLE.EXE. first write
                  1098
 1033
                              out the capability pointers.
 1034
                  1099
 1035
                  1100
                  1101
 1036
                                BINARY_RAB = .AP [PARAM_A_BINARY_RAB];
                  1102
 1037
 1038
                                BINARY_RAB [RAB$W_RSZ] = SMG$K_CAP_PTRS_SIZE;
BINARY_RAB [RAB$L_RBF] = .AP [PARAM_A_CAP_PTRS];
 1039
                  1104
                  1105
 1040
                                                                            set up size & buffer addr
                  1106
                                BINARY_RAB [RAB$L_BKT] = .SMG$$CURRENT_DEF_BLOCK;
 1041
  1042
                                                                          ! set virtual block number
 1043
                  1108
                  1109
: 1044
                                $WRITE (RAB = .BINARY_RAB);
```

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 ZERO_CUR_TERM_DEF - zero the current terminal d 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                      VAX-11 Bliss-32 V4.0-742
1-004
                                                                                                      [SMGRTL.SRC]SMGSTATAB.B32:1
 1045
  1046
                  1111
                  1112
                             See if any data needs to be written out.
  1048
  1049
                  1114
                  1115
  1050
                                CALLG (.AP, SMG$$WRITE_DATA);
  1051
                  1116
                  1117
  1052
  1053
                  1118
                            ! Update the next available block number.
                  1119
  1054
                  1120
  1055
                                SMG$$CURRENT_DEF_BLOCK = .SMG$$CURRENT_BLOCK;
SMG$$CURRENT_BLOCK = .SMG$$CURRENT_DEF_BLOCK + (SMG$k_CAP_PTRS_SIZE/512);
  1056
  1057
  1058
                                                                          ! next data skips over pointers
                  1124
  1059
  1060
                  1126
  1061
                              Mark that there is no current definition. Init some things that will be
                  1127
  1062
                              reused by the next definition.
                  1128
  1063
                  1129
  1064
                  1130
  1065
                                AP [PARAM_L_CUR_TERM_DEF] = 0;
                  1131
  1066
                  1132
  1067
                                CH$FILL (O, SMG$K_CAP_PTRS_SIZE, .AP [PARAM_A_CAP_PTRS]);
  1068
                                                                            zero data offsets
                  1134
  1069
                                SMG$$DATA_OFFSET = SMG$K_CAP_PTRS_SIZE;
  1070
                                                                            start with 1st offset again
  1071
                  1136
                                CHSFILL (O, SMGSK_CAP_DATA_SIZE, .AP [PARAM_A_CAP_DATA]);
  1072
                  1137
                                                                            zero the data buffer
                                AP [PARAM_L_CUR_DATA_BYTE] = .AP [PARAM_A_CAP_DATA];
  1073
                  1138
  1074
                  1139
                                                                          ! current data byte is 1st byte
  1075
                  1140
  1076
                  1141
                                RETURN (SS$_NORMAL);
  1077
                  1142
                                END:
                                                                          ! end of routine ZERO_CUR_TERM_DEF
                                                                                      .EXTRN SYSSWRITE
                                                                007C 00000 ZERO_CUR_TERM_DEF: .WORD Sa
                                                                                               Save R2,R3,R4,R5,R6
                                                                                                                                                    1054
                                             56 000000000
                                                                                      MOVAB
                                                                                               SMG$$CURRENT_DEF_BLOCK, R6
                                                                                               48(AP), BINARY RAB
#1536, 34(BINARY RAB)
52(AP), 40(BINARY RAB)
                                                             AC
8F
AC
                                                                  DO
                                                                     00009
                                                                                                                                                     1101
                                                                                      MOVL
                                             AO
                                                     0600
                                                                  BO 0000D
                                                                                                                                                     1103
                                                                                      MOVW
                                             A0
                                                                  DO 00013
                                                                                                                                                     1104
                                                                                      MOVL
                                                             66
50
01
                                             A0
                                                                  DO 00018
                                                                                               SMG$$CURRENT_DEF_BLOCK, 56(BINARY_RAB)
                                                                                                                                                     1106
                                                                                      MOVL
                                                                  DD 0001C
                                                                                      PUSHL
                                                                                               BINARY_RAB
                                                                                                                                                     1109
                                                                                               #1, SYSSWRITE (AP), SMGSSWRITE DATA
                                0000000G
                                             00
                                                                  FB 0001E
                                                                                      CALLS
                                                                  FA 00025
DO 0002A
                                                                                                                                                     1115
                                     0000v
                                                                                      CALLG
                                             CF
                                                             60
                                                             A6
03
                                                                                               SMG$$CURRENT_BLOCK, SMG$$CURRENT_DEF_BLOCK
                                                                                                                                                     1121
                                             66
                                                       FC
                                                                                      MOVL
                                                                                                                                                     1122
                                                                  C1 0002E
                                                                                      ADDL3
                                                                                               #3, SMG$$CURRENT_DEF_BLOCK, -
                       FC
                             A6
                                             66
                                                                                               SMG$$CURRENT_BLOCK
                                                             AC
00
                                                                                               72(AP)
                                                        48
                                                                  D4 00033
                                                                                      CLRL
                                                                  ŽĊ
                                                                     00036
                                                                                               #0, (SP), #0, #1536, a52(AP)
    0600
             8F
                             00
                                             6E
                                                                                      MOVC5
                                                             BC
8F
00
                                                                      0003D
                                             A6
                                                     0600
                                                                     0003F
                                                                                      MOVZWL
                                                                                               #1536, SMG$$DATA_OFFSET
                                                                                                                                                    1136
    1400
            8F
                             00
                                             6E
                                                                     00045
                                                                                      MOVC5
                                                                                               #0, (SP), #0, #5T20, @56(AP)
```

BC

00040

; F

; Routine Size: 87 bytes. Routine Base: _SMG\$CODE + 02EF

```
6
                   TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$BLANKS_OFF - Turn OFF bit to skip over bla 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                       VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                                  Page 39
                                                                                                                                                      (14)
                          1 %SBTTL 'SMG$$BLANKS_OFF - Turn OFF bit to skip over blanks'
: 1079
                   1144
  1080
                            GLOBAL ROUTINE SMG$$BLANKS_OFF =
  1081
                   1146
  1082
1083
                            ! FUNCTIONAL DESCRIPTION:
                   1148
1149
1150
  1084
  1085
                                      Turns Off a bit in the TPARSE parameter block which controls
  1086
                                      whether blanks are significant.
                   1151
  1087
                   1152
  1088
                              CALLING SEQUENCE:
  1089
                   1154
  1090
                                      status = SMG$$BLANKS_OFF ();
  1091
                   1156
  1092
                              FORMAL PARAMETERS:
  1093
                   1158
  1094
                                     NONE
  1095
  1096
                   1160
                              IMPLICIT INPUTS:
  1097
                   1161
                   1162
  1098
                                      AP
                                               Points to TPARSE parameter block
  1099
                   1164
1165
  1100
                               IMPLICIT OUTPUTS:
  1101
                   1166
  1102
                                     NONE
  1103
                  1168
1169
1170
  1104
                              COMPLETION STATUS:
  1105
: 1106
                                       SS$_NORMAL
  1107
                   1171
                   1172
  1108
                              SIDE EFFECTS:
 1109
 1110
                   1174
                  1175
1176
1177
 1111
 1112
                                 BEGIN
  1113
                                 BUILTIN
                   1178
: 1114
                                     AP;
: 1115
                   1180
1181
1182
1183
; 1116
                                     AP : REF BLOCK [,BYTE];
: 1117
: 1118
                                 AP [TPA$V_BLANKS] = 0;
  1119
                   1184
1185
; 1120
                                 RETURN (SS$_NORMAL);
; 1121
: 1122
                   1186
                                 END:
                                                                           ! end of routine SMG$$BLANKS_OFF
                                                                                                                                                      1144
                                                                 0000 00000
                                                                                       .ENTRY
                                                                                                SMG$$BLANKS_OFF, Save nothing
                                                                                                #1, 4(AP)
#1, RO
                                        04
                                              AC
50
                                                                   8A 00002
                                                                                                                                                      1182
                                                                                       BICB2
                                                                   DO 00006
                                                                                       MOVL
                                                                                                                                                      1184
                                                                   04 00009
                                                                                       RET
                                                                                                                                                      1186
: Routine Size: 10 bytes.
                                   Routine Base: _SMG$CODE + 0346
```

1-(

```
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                       16-Sep-1984 01:19:22
14-Sep-1984 13:10:03
                                                                                                  VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                          Page 40 (15)
1-004
                  SMG$$BLANKS_ON - Set bit to look at blanks
                          *SBTTL 'SMG$$BLANKS_ON - Sec bit to look at blanks'
                           GLOBAL ROUTINE SMG$$BLANKS_ON =
                  1189
                  1190
                  1191
                            FUNCTIONAL DESCRIPTION:
                  1192
                                    Sets a bit in the TPARSE parameter block that causes blanks
                  1194
                                    and tabs to be processed.
                  1195
                  1196
                             CALLING SEQUENCE:
                  1197
                  1198
                                   status = SMG$$BLANKS_ON ();
                  1199
                  1200
                             FORMAL PARAMETERS:
                  1201
                                   NONE
  1140
                             IMPLICIT INPUTS:
                                   AP
                                            Points to TPARSE parameter block
                             IMPLICIT OUTPUTS:
                  1210
                                   NONE
 1149
                             COMPLETION STATUS:
                                    SS$_NORMAL
                             SIDE EFFECTS:
  1155
  1157
                               BEGIN
                               BUILTIN
  1159
                                   AP;
                               MAP
 1160
                                   AP : REF BLOCK [,BYTE];
 1161
: 1162
: 1163
                               AP [TPA$V_BLANKS] = 1;
: 1164
; 1165
                               RETURN (SS$_NORMAL);
                  1229
; 1166
: 1167
                               END:
                                                                       ! end of routine SMG$$BLANKS_ON
                                                                                                                                             1188
1226
1228
                                                             0000 00000
                                                                                   .ENTRY
                                                                                           SMG$$BLANKS_ON, Save nothing
                                                               88 00002
                                                                                           #1, 4(AP)
#1, RO
                                                                                  BISB2
                                           50
                                                               DO 00006
                                                                                  MOVL
                                                               04 00009
                                                                                  RET
```

; Routine Size: 10 bytes, Routine Base: _SMG\$CODE + 0350

```
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 1-004 SMG$$COPY_CAP - Copy a string capability into T 14-Sep-1984 13:10:03
                                                                                                         VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                            %SBTTL 'SMG$$COPY_CAP - Copy a string capability into TERMTABLE.EXE' GLOBAL ROUTINE SMG$$COPY_CAP =
: 1169
 1170
 1171
  1172
  1173
                              FUNCTIONAL DESCRIPTION:
  1174
  1175
                                      Copies a string capability into TERMTABLE.EXE. It uses the current capability number to determine where to copy the string.
  1176
  1177
  1178
                               CALLING SEQUENCE:
  1179
  1180
                                      status = SMG$$COPY_CAP ()
  1181
  1182
                               FORMAL PARAMETERS:
  1183
  1184
                                      NONE
  1185
 1186
                               IMPLICIT INPUTS:
 1187
 1188
                                      AP
                                                Points to TPARSE parameter block
 1189
 1190
                               IMPLICIT OUTPUTS:
 1191
 1192
                                      NONE
 1193
 1194
                               COMPLETION STATUS:
 1195
 1196
                   1258
                                       SS$_NORMAL
 1197
 1198
                   1260
                               SIDE EFFECTS:
 1199
                   1261
 1200
  1201
  1202
                                 BEGIN
 1203
                                 BUILTIN
 1204
                                      CALLG,
 1205
                                      AP:
 1206
                                 MAP
 1207
                                      AP : REF BLOCK [,BYTE];
 1209
                            ! If this is the name capability, then we are starting a new terminal
 1210
 1211
                               definition. Start a new block and set up some pointers.
  1213
 1214
                                 IF .AP [PARAM_L_CUR_CAP_NUMBER] EQL SMG$K_NAME
 1215
                                 THEN
  1216
                                      CALLG (.AP, START_NEW_TERM_DEF);
 1217
                               If this is not the NAME capability and we have no pointers set up
                               for the terminal definition, then NAME was not the first capability
                               in the definition. Complain.
                                 BEGIN
                                 BIND
```

(16)

```
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                  TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$COPY_CAP ~ Copy a string capability into T 14-Sep-1984 13:10:03
                                                                                                      VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                                Page 42 (16)
                  1288
1289
                                     CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
                  1290
                                IF CAP_PTRS EQL 0
                  1291
                                THEN
                  1292
1293
                                     SIGNAL_STOP (SMG$_MISTERNAM);
                   1294
                   1295
                              Move the capability data. The byte count is in the first byte and
                  1296
                              the actual data follows.
                   1297
                  1298
                              Part of the string may already be copied - append in this part so
                              as not to overwrite it. (This can happen if escape or control are
                   1300
                              part of the sequence.)
                   1301
                                If .AP [PARAM_L_SAVED_TOKENENT] NEQ 0
                  1305
                                     CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
                  1306
                                                                          ! copy string into data area
  1245
                  1307
                  1308
                                END:
                                                                          ! end of BINDs scope
  1247
                  1309
                  1310
                                AP [TPA$V_BLANKS] = 0;
                                                                          ! out of string cap, skip over blanks
                  1311
                  1312
                                RETURN (SS$ NORMAL);
 1251
                                END:
                                                                          ! end of routine SMG$$COPY_CAP
                                                               0000 00000
                                                                                               SMG$$COPY_CAP, Save nothing 80(AP), #555
                                                                                      .ENTRY
                                                                                                                                                    1232
1276
                                0000022B
                                                       50
                                                                  D1 00002
                                                                                      CMPL
                                                                 12 0000A
                                                             05
                                                                                      BNEQ
                                                                                                                                                    1278
1290
                                     FEEA
                                                             60
                                                                 FA 0000C
                                                                                      CALLG
                                                                                               (AP), START_NEW_TERM_DEF
                                                                 D5 00011 1$: 12 00014
                                                       48
                                                                                      TSTL
                                                                                               72(AP)
                                                                                      BNEQ
                                                 0000000G
                                                                  9F 00016
                                                             00
                                                                                                                                                    1292
                                                                                      PUSHAB
                                                                                               SMG$_MISTERNAM
                                0000000G
                                                             01
                                                                  FB 0001C
                                                                                               #1. [IB$STOP
                                                                                      CALLS
                                                       54
                                                                  D5 00023 2$:
                                                                                               84(AP)
                                                                                                                                                    1303
                                                                                      TSTL
                                                                  13 00026
                                                             05
                                                                                     BEQL
                                     C000V
                                                                                               (AP), SMG$$FLUSH_SAVED_BUFFER #1, 4(AP)
                                                                  FA 00028
                                                                                                                                                    1305
                                                             60
                                                                                      CALLG
                                                                                                                                                    1310
                                                             01
                                             AC
                                                                  8A 0002D 3$:
                                                                                     BICB<sub>2</sub>
                                             50
                                                             01
                                                                  DO 00031
                                                                                               #1, R0
                                                                                      MOVL
                                                                  04 00034
                                                                                      RET
                                                                                                                                                    1313
```

; Routine Size: 53 bytes, Routine Base: _SMG\$CODE + 035A

SMG\$STATEMENT_T 1-004 : 1310 : 1311 : 1312 : 1313 : 1314 : 1315 : 1316 : 1317	TPARSE ta SMG\$\$FLUS 1371 2 1372 2 1373 2 1374 2 1375 2 1376 2 1377 2 1378 1	SUPDATE_ARITHMETIC - flus SUPDATE_ARITH_ST AP [PARAM_L_SAVE AP [PARAM_L_SAVE AP [PARAM_L_SAVE RETURN (SS\$_NORM END,	RING_SIZE (.AP D_TOKEN(NT] = (D_TOKENSTR] = ([PARAM_L_SAVED . update);); ! re-init	_TOKEN(NT]); size of expr	VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1 ression SFLUSH_ARITHMETIC	Page 44 (17)
		50 38 AC 50 50 50 60 60 50 50 50 50 50 50 50 50 50 50 50 50 50	4C AC CO 1400 CO 91 54 AC DO 6C F/ 4C AC DO 54 AC CO 54 AC CO 54 AC CO 54 AC DO 48 AC CO 48 AC AC 54 AC DO 54 AC DO 54 AC DO 55 AC AC DO 56 AC DO 57 AC DO 57 AC DO 58 AC DO 5	E 00008 1 0000D 5 00011 A 00013 0 00018 1\$: B 0001C 0 00027 0 00027 0 00025 C 00033 0 00038 2 0003C	CMPL 84(BLEQ 1\$ CALLG (AP MOVL 76(MOVC3 84(ADDL2 84(ADDL2 84(MOVL 80(MOVZWL 872 ADDL2 72(SUBB2 84(CLRQ 84(G\$\$FLUSH_ARITHMETIC, Save R2,R3,R4,R5 (AP), 56(AP), R0 20(R0), REMAINING_BYTES (AP), REMAINING_BYTES P), SMG\$\$WRITE_DATA (AP), START_COPY (AP), a88(AP), (START_COPY) (AP), 76(AP) (AP), 76(AP) (AP), SMG\$\$DATA_OFFSET (AP), R0 2(AP)[R0], CAP_SIZE (AP), (CAP_SIZE) (AP), (CAP_SIZE) (AP), R0	1315 1358 1360 1364 1367 1369 1371

; Routine Size: 71 bytes, Routine Base: _SMG\$CODE + 038F

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$FLUSH_NUMERIC - flush number to data area 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                           VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                             *SBTTL 'SMG$$FLUSH_NUMERIC - flush number to data area'
                   1380
                             GLOBAL ROUTINE SMG$$FLUSH NUMERIC =
                   1381
1382
1383
                               FUNCTIONAL DESCRIPTION:
                   1384
                   1385
                                       Copies a boolean or numeric value into TERMTABLE.EXE. It uses the
 1326
1327
1328
1329
1330
1331
                   1386
                                       current capability number to determine where to copy it.
                   1387
                   1388
                               CALLING SEQUENCE:
                   1389
                   1390
                                       status = SMG$$FLUSH_NUMERIC ()
                   1391
 1332
1333
1334
1335
1336
                   1392
1393
                               FORMAL PARAMETERS:
                   1394
                                       NONE
                   1395
                   1396
                               IMPLICIT INPUTS:
                   1397
 1338
                   1398
                                       AP
                                                Points to TPARSE parameter block
 1339
1340
                   1399
                   1400
                               IMPLICIT OUTPUTS:
 1341
1342
1343
1344
1346
1346
1348
                   1401
                   1402
                                      NONE
                   1403
                   1404
                               COMPLETION STATUS:
                   1405
                   1406
                                        SS$_NORMAL
                   1407
                   1408
                               SIDE EFFECTS:
 1349
                   1409
 1350
                   1410
                          1!--
 1351
                   1411
 1352
                   1412
                                  BEGIN
 1353
                                  BUILTIN
 1354
                   1414
                                      CALLG.
 1355
                   1415
                                       AP;
 1356
                   1416
                                  MAP
 1357
                   1417
                                       AP : REF BLOCK [,BYTE];
  1358
                   1418
                                  LOCAL
 1359
                   1419
                                       CUR TERM DEF : REF VECTOR [, WORD].
 1360
                   1420
                                       START_CAP_STRING : REF VECTOR [, BYTE, SIGNED];
                   1421
1422
1423
1424
1425
1426
1427
1428
1429
1430
  1361
                                  CUR_TERM_DEF = .AP [PARAM_L_CUR_TERM_DEF];
IF .CUR_TERM_DEF EQL 0
  1362
 1363
 1364
                                  THEN
 1365
                                      SIGNAL_STOP (SMG$_MISTERNAM);
                                                                             ! complain if no current def
  1366
 1367
                                  $CHECK_BUFFER_OVERFLOW (6);
                                                                              ! make sure there's room in buffer
  1368
  1369
                                  CUR_TERM_DEF [.AP [PARAM_L_CUR_CAP_NUMBER]] = .SMG$$DATA_OFFSET;
  1370
                                                                                set cap ptr to data offset
  1371
                   1431
                                  SMG$$DATA_OFFSET = .SMG$$DATA_OFFSET + 6;
                                  ! update to next offset
START_CAP_STRING = .AP [PARAM_L_CUR_DATA_BYTE];
                   1432
1433
  1372
  1373
  1374
                   1434
                                                                                point to next available data byte
  1375
                   1435
                                  START_CAP_STRING [0] = 4;
                                                                                length
```

Page 45 (18)

000000006 50 38 0000v 6	00C06 506 C503 5600 AC	00000000000000000000000000000000000000	EACDOO ACC 505 CC 50 CC	00000 000000 000000 000000 000000 000000	ENTRY MOVAB MOVAB MOVL BNEQ PUSHAB CALLS SUBL3 MOVAB CMPL BGEQ CALLG MOVL MOVL MOVL ADDL2 MOVL ADDL2	SMG\$\$FLUSH_NUMERIC, Save R2,R3 SMG\$\$DATA_OFFSET, R3 72(AP), CUR_TERM_DEF 1\$ SMG\$_MISTERNAM #1, LIB\$STOP 76(AP), 56(AP), R0 5120(R0), REMAINING_BYTES REMAINING_BYTES, #6 2\$ (AP), SMG\$\$WRITE_DATA 80(AP), R0 SMG\$\$DATA_OFFSET, (CUR_TERM_DEF)[R0] #6, SMG\$\$DATA_OFFSET 76(AP), START_CAP_STRING #4, (START_CAP_STRING) 28(AP), 2(START_CAP_STRING) #6, 76(AP)	1422 1423 1425 1427 1427 1437 1433 1436 1438
40	AC 50		01 [00048 000046 04 0004F	ADDL2 MOVL RET	#6, 76(AP) #1, R0	1438 1441 1443

SM(1-(

; 1

; Routine Size: 80 bytes. Routine Base: _SMG\$CODE + 03D6

```
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                  TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$FLUSH_SAVED_BUFFER - flush saved token to 14-Sep-1984 13:10:03
                                                                                                     VAX-11 Bliss-32 V4.0-742
                                                                                                     [SMGRTL.SRC]SMGSTATAB.B32:1
: 1385
: 1386
: 1387
                  1444
                           *SBTTL 'SMG$$FLUSH_SAVED_BUFFER - flush saved token to data buffer'
                            GLOBAL ROUTINE SMG$$FLUSH_SAVED_BUFFER =
                  1446
  1389
                   1448
                              FUNCTIONAL DESCRIPTION:
  1390
                   1449
                   1450
                              Append the saved token into the data area for the current capability.
                              We must append the data rather than just copying it because tokens are
                              inserted as they are discovered, so this may not be the first.
  1394
  1395
                              CALLING SEQUENCE:
                   1455
  1397
  1398
                                     status = SMG$$FLUSH_SAVED_BUFFER ()
  1399
                   1458
  1400
                   1459
                              FORMAL PARAMETERS:
  1401
                   1460
  1402
                   1461
                                     NONE
  1403
                  1462
1463
  1404
                              IMPLICIT INPUTS:
  1405
                   1464
  1406
                   1465
                                     AP
                                              Points to TPARSE parameter block
  1407
                   1466
  1408
                   1467
                              IMPLICIT OUTPUTS:
  1409
                   1468
  1410
                  1469
                                     NONE
  1411
                   1470
  1412
                              COMPLETION STATUS:
                   1471
  1413
                   1472
  1414
                   1473
                                      SS$_NORMAL
  1415
 1416
                              SIDE EFFECTS:
  1417
                   1476
  1418
  1419
  1420
                                BEGIN
  1421
                                BUILTIN
                                     CALLG.
                                     AP;
                                MAP
                                    AP : REF BLOCK [,BYTE];
  1426
                   1485
  1427
                   1486
                                IF .AP [PARAM_L_SAVED_TOKENENT] EQL 0
  1428
                   1487
                                THEN
                   1488
                                     RETURN (SS$_NORMAL)
                                                                         ! no string to copy
  1430
                   1489
                                ELSE
  1431
                   1490
                                     BEGIN
                                                                         ! copy saved string
                   1491
  1433
                                         CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
                   1493
                                     LOCAL
                                         FIRST : INITIAL (0),
START_CAP_STRING : REF VECTOR [,BYTE,SIGNED],
SIZE_TYPE : INITIAL (0);
                   1494
  1435
                   1495
  1436
  1437
                   1496
  1438
                  1497
  1439
                  1498
                                     $CHECK_BUFFER_OVERFLOW (.AP [PARAM_L_SAVED_TOKENCNT]);
                                     ! make sure there's room in the buffer IF .CAP_PTRS [.AP [PARAM_L_CUR_CAP_NUMBER]] NEQ 0
                  1499
: 1440
: 1441
                  1500
```

Page 47 (19)

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$FLUSH_SAVED_BUFFER - flush saved token to 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                        VAX-11 Bliss-32 V4.0-742
                                                                                                        [SMGRTL.SRC]SMGSTATAB.B32:1
 1442
                   1501
1502
1503
1504
1506
1507
1508
1510
1511
1513
                                      THEN
                                           BEGIN
 1444
  1445
                                            Not start of the capability string.
  1446
  1447
                                           START_CAP_STRING = .AP [PARAM_L_CUR_TERM_DEF] +
  1448
                                                                 .CAP_PTRS [.AP [PARAM]L_CUR_CAP_NUMBER]];
  1449
                                          END
  1450
                                     ELSE
 1451
 1452
                                            first byte of capability string. Set offset pointer.
 1454
                                          BEGIN
  1455
                   1514
                                          FIRST = 1;
                   1515
                                          START_CAP_STRING = .AP [PARAM_L_CUR_DATA_BYTE];
 1456
                  1516
  1457
                                          CAP_PTRS [.AF [PARAM_L_CUR_CAP_NUMBER]] = .SMG$$DATA_OFFSET;
  1458
                   1518
 1459
                   1519
 1460
                                      IF .START_CAP_STRING [1] NEQ SMG$K_ARITH_STRING
                  1520
1521
  1461
                                      THEN
  1462
                                          BEGIN
                  1522
1523
1524
                                          CH$MOVE (.AP [PARAM_L_SAVED_TOKENCHT], AP [PARAM_L_SAVED_TOKENSTR],
  1463
  1464
  1465
                                                     START_CAP_STRING [2] + ABS (.START_CAP_STRING [0]));
                   1525
  1466
                                          END
                  1526
1527
 1467
                                     ELSE
 1468
                                          BEGIN
                   1528
 1469
                                          BIND
                   1529
                                               EMBEDDED_STRING = (START_CAP_STRING [2] +
ABS (.START_CAP_STRING [0]) - 2)
: VECTOR [,BYTE];
 1470
                   1530
 1471
                   1531
 1472
 1473
                   1532
                                                                    subtract arith size & type
                                          1474
                   1533
 1475
                   1534
                                                                                       positive count indicates string
                   1535
  1476
                   1536
 1477
                   1537
  1478
                   1538
                                          SIZE_TYPE = 2:
 1479
                  1539
 1480
                                          END:
                   1540
 1481
                  1541
                                     $INCR_CAP_STRING_SIZE ((.AP [PARAM_L_SAVED_TOKENCHT] + .SIZE_TYPE),
START_CAP_STRING [0]);
 1482
                  1542
  1483
  1484
                                                                             "update # bytes in string
                   1544
  1485
                   1545
                                     $INCR_CUR_DATA_BYTE ((.AP [PARAM_L_SAVED_TOKENONT] + .SIZE_TYPE), .FIRST);
  1486
                   1546
  1487
                                                                              macro to update next available
                   1547
  1488
                                                                             data byte, data offset
                   1548
  1489
                   1549
                                     AP [PARAM_L_SAVED_TOKENCHT] = 0;
AP [PARAM_L_SAVED_TOKENSTR] = 0;
 1490
                  1559
1551
1552
1553
1554
1555
1556
  1491
  1492
                                                                            ! re-init to no saved string
  1493
  1494
                                      IF .SMG$$MASK_ADR EQL SMG$K_FAO_STRING
  1495
                                      THEN
 1496
                                          BEGIN
 1497
 1498
                                          ! If this is an FAO string, then we should set the type
```

Page

(19)

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$FLUSH_SAVED_BUFFER - flush saved token to 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                            VAX-11 Bliss-32 V4.0-742
                                                                                                            [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                                              (19)
: 1499
                   1558
1559
1560
                                              byte and negate the size byte.
 1500
 1501
                                               .START_CAP_STRING [O] GTR O
 1502
                   1561
                                            THEN
                   1562
1563
                                                 START_CAP_STRING [0] = -.START_CAP_STRING [0];
 1503
                                                                                don't negate twice
 1504
  1505
                   1564
                                            START_CAP_STRING [1] = .SMG$$MASK_ADR;
  1506
                   1565
                                                                                 set type byte
 1507
                   1566
                                            SMG$$MASK_ADR = 0;
                                                                               ! reset mask
  1508
                   1567
                                            END:
  1509
                   1568
                   1569
1570
  1510
                                       END:
                                                                               ! copy saved string
 1511
 1512
1513
                   1571
                   1572
1573
                                  RETURN (SS$_NORMAL);
 1514
 1515
                   1574
                                  END:
                                                                              ! end of routine SMG$$FLUSH_SAVED_BUFFER
                                                                   OFFC 00000
                                                                                                     SMG$$FLUSH_SAVED_BUFFER, Save R2,R3,R4,R5,-
                                                                                           .ENTRY
                                                                                                                                                             1445
                                                                                                    R6,R7,R8,R9,R10,R11
84(AP), R9
                                                59
                                                           54
                                                                         00002
                                                                                           MOVAB
                                                                                                                                                              1486
                                                                 69
                                                                      05
                                                                                                     (R9)
                                                                          00006
                                                                                           TSTL
                                                                 03
                                                                      12
                                                                         00008
                                                                                           BNEQ
                                                                                                     15
                                                                      31
                                                               00E5
                                                                         0000A
                                                                                           BRW
                                                                                                     16$
                                                52
                                                                         0000D 15:
                                                                 AC
5A
                                                                                           MOVL
                                                                                                     72(AP), R2
                                                                                                                                                              1492
                                                                      D0
                                                                                                    SIZE TYPE
76(AP), 56(AP), RO
5120(RO), REMAINING_BYTES
                                                                      7<u>C</u>
                                                                         00011
                                                                                           CLRQ
                              50
                                         38
                                                                         00013
                                                                                           SUBL 3
                                                                                                                                                              1498
                                                50
                                                        1400
                                                                 CO
                                                                      9E
                                                                         00019
                                                                                           MOVAB
                                                50
                                                                 69
                                                                      DĪ
                                                                         0001E
                                                                                           CMPL
                                                                                                     (R9), REMAINING_BYTES
                                                                 05
                                                                      15
                                                                         00021
                                                                                           BLEQ
                                                                                                    (AP), SMG$$WRITE_DATA
80(AP), RO
(R2)[R0]
                                       0000v
                                                                 60
                                                                      FA 00023
                                                                                           CALLG
                                                50
                                                           50
                                                                      DO 00028 25:
                                                                                                                                                              1500
                                                                 AC
                                                                                           MOVL
                                                               6240
                                                                      B5
                                                                         00020
                                                                                           TSTW
                                                                 0A
                                                                      13
                                                                         0002F
                                                                                           BEQL
                                                                                                     3$
                                                                      3C
                                                                                           MÖVZWL
                                                                                                    (R2)[R0], START_CAP_STRING
72(AP), START_CAP_STRING
                                                              6240
                                                                         00031
                                                                                                                                                              1507
                                                56
                                                56
                                                                      CO
                                                                         00035
                                                                 AC
                                                                                           ADDL2
                                                                 0F
                                                                      11
                                                                         00039
                                                                                           BRB
                                                                                                                                                             1500
                                                                      DO 0003B 3$:
                                                                                                     #1. FIRST
                                                58
                                                                 01
                                                                                           MOVL
                                                                                                                                                             1514
                                                                                                    76(AP), START_CAP_STRING
SMG$$DATA_OFFSET, (R2)[R0]
                                                56
                                                                      DO
                                                                         0003E
                                                                                           MOVL
                                                                                                                                                             1515
                                                                 AC
                                             6240
                                                   00000000
                                                                 EF
                                                                         00042
                                                                      B0
                                                                                           MOVW
                                                                                                                                                             1516
                                                                      91
                                         FE
                                                                         0004A 45:
                                                                                           CMPB
                                                                                                     1(START_CAP_STRING), #-2
                                                                 A6
                                                                 17
                                                                      13
                                                                         0004F
                                                                                           BEQL
                                                                                                     6$
                                                                                                    (START_CAP_STRING), R7
                                                58
57
                                                                 69
                                                                      DO 00051
                                                                                                     (R9), R8
                                                                                           MOVL
                                                                      98 00054
                                                                 667
030
50
10
                                                                                           CVTBL
                                                50
                                                                      DO 00057
                                                                                           MOVL
                                                                      18 0005A
                                                                                           BGEQ
                                                                                                     5$
                                                                      CE
28
11
                                                50
                                                                         0005C
                                                                                           MNEGL
MOVC3
                        02 A046
                                          58
                                                BC
                                                                         0005F 5$:
                                                                                                     R8, @88(AP), 2(R0)[START_CAP_STRING]
                                                                         00066
                                                                                                                                                             1519
1530
                                                                                           BRB
                                                                 66
57
03
                                                                                                    (START_CAP_STRING), R7
R7, R0
7$
                                                                      98 00068 6$:
                                                57
                                                                                           CVTBL
                                                50
                                                                      DŌ
                                                                         0006B
                                                                                           MOVL
                                                                      18
                                                                         0006E
                                                                                           BGEQ
                                                                                                     RO, RO
                                                50
                                                                      CE 00070
                                                                                           MNEGL
```

	SMG\$STATEMENT_T TPARSE t 1-004 SMG\$\$FLU	ables ISH_SA	for TERM	TABLE statemen R - flush save	nts ed to	oken	to 1	I 7 5-Sep-19 4-Sep-19	984 01:19 984 13:10):22 VAX-11 Bliss-32 V4.0-742 Pag):03 [SMGRTL.SRC]SMGSTATAB.B32;1	je 50 (19)
	02	AO	58	50 58 60 BC 5A	56 69 58 58 027	CO DO 98 28 DO DS	00076 00079 00070		ADDL2 MOVL MOVZBW MOVC3 MOVL TSTL	START_CAP_STRING, RO (R9), R8 R8, (R0) R8, @88(AP), 2(R0) W2, SIZE_TYPE R7	1529 1533 1537 1538 1542
		50 66 50 66		58 57 58 57 50 40 51	0508A0CB2	18 C1 81 C1 81 C0 E9	00087 00089 0008D 00091 00093 00097 0009B 0009F	9\$:	BGEQ ADDL3 SUBB3 BRB ADDL3 ADDB3 ADDB3 BLBC MOVL	9\$ SIZE_TYPE, R8, R0 R0, R7, (START_CAP_STRING) 10\$ SIZE_TYPE, R8, R0 R0, R7, (START_CAP_STRING) 76(AP), R0 FIRST, 11\$	1545
	40	AC 51		50 69 51 00000000' 05 50	021 51 55 A E5B 02	11 04 C1 C1 C0 E9 D1	000A5 000A7 000A9 000AE 000B2 000B9 000BC	12\$:	BRB CLRL ADDL3 ADDL3 ADDL2 BLBC MOVL BRB	#2, R1 12\$ R1 R1, R0, 76(AP) SIZE TYPE, (R9), R1 SMG\$\$DATA_OFFSET, R1 FIRST, 13\$ #2, R0 14\$	
in the second se	00000000	EF F	FFFFFF	51 8f 00000000°	50 50 69 AC EF 15	D4 C1 D4 D1 12 95	00003 0000B 0000D 000DB	13 \$: 14 \$:	CLRL ADDL3 CLRL CLRL CMPL BNEQ TSTB	RO RO, RO, SMG\$\$DATA_OFFSET (R9) 88(AP) SMG\$\$MASK_ADR, #-1 16\$ (START_CAP_STRING)	1549 1550 1553
			01	66 A6 00000000° 50	66 03 66 EF EF 01	15	000DF 000E1 000E4 000EC 000F2		BLEQ MNEGB MOVB CLRL MOVL RET	15\$ (START_CAP_STRING), (START_CAP_STRING) SMG\$\$MASK_ADR, 1(START_CAP_STRING) SMG\$\$MASK_ADR #1, R0	1562 1564 1566 1572 1574

; Routine Size: 246 bytes. Routine Base: _SMG\$CODE + 0426

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$MISSING_END - signal missing end statement 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                 Page 51 (20)
                                                                                                       [SMGRTL.SRC]SMGSTATAB.B32:1
 1 %SBTTL 'SMG$$MISSING_END - signal missing end statement'
                            GLOBAL ROUTINE SMG$$MISSING_END =
                            ! FUNCTIONAL DESCRIPTION:
                                     Signal that some other statement occurred where there should have
                                     been an END statement.
                              CALLING SEQUENCE:
                                     SMG$$MISSING_END ()
                              FORMAL PARAMETERS:
                  1591
                                     NONE
                  1592
1593
                              IMPLICIT INPUTS:
                  1594
                  1595
                                     AP
                                              Points to TPARSE parameter block
                  1596
                  1597
                              IMPLILIT OUTPUTS:
                  1598
1599
                                     NONE
                  1600
                  1601
                              COMPLETION STATUS:
                  1602
                                      SS$_NORMAL
                  1604
                  1605
                              SIDE EFFECTS:
                  1606
                  1608
                  1609
                                BEGIN
                  1610
                                BUILTIN
                  1611
                                     AP;
                  1612
                                     AP : REF BLOCK [,BYTE];
                  1614
                  1615
                                SIGNAL_STOP (SMG$_ERRLIN, 1, .5MG$$CURRENT_LINE,
 1558
1559
1560
                  1616
1617
                                               SMG$_MISENDSTA)
                  1618
 1561
                  1619
                                END:
                                                                          ! end of routine SMG$$MISSING_END
                                                                0000 00000
                                                                                               SMG$$MISSING_END, Save nothing SMG$_MISENDSTA
                                                                                                                                                     1576
1615
                                                                                       .ENTRY
                                                                     00002
                                                 0000000G
                                                             00
                                                                  9F
                                                                                      PUSHAB
                                                                     00008
                                                 00000000
                                                                  DD
                                                                                      PUSHL
                                                                                               SMG$$CURRENT_LINE
                                                                                                                                                     1616
                                                                     ŎŎŎŎĔ
                                                                  DD
                                                                                      PUSHL
                                                                                                                                                     1615
                                                             ŎÓ
04
                                                                     00010
                                                                  9F
                                                                                               SMG$ ERRLIN
#4, [IB$STOP
                                                 0000000G
                                                                                      PUSHAB
                                                                  FB 00016
04 0001D
                                0000000G
                                                                                      CALLS
                                                                                                                                                     1619
                                                                                      RET
```

SMG\$STATEMENT_T TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 VAX-11 Bliss-32 V4.0-742 SMG\$\$MISSING_END - signal missing end statement 14-Sep-1984 13:10:03 [SMGRTL.SRC]SMGSTATAB.B32;1

; Routine Size: 30 bytes, Routine Base: _SMG\$CODE + 0510

ge 52

**

```
IMARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$NEXT_RECORD - Get next record from TERMTAB 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                          VAX-11 Bliss-32 V4.0-742
                                                                                                                                                     Page 53 (21)
                                                                                                          [SMGRTL.SRC]SMGSTATAB.B32:1
                   1620
1621
1622
1623
1624
; 1563
                             *SBTTL 'SMG$$NEXT_RECORD - Get next record from TERMTABLE.TXT'
: 1564
: 1565
: 1566
                             GLOBAL ROUTINE SMG$$NEXT_RECORD =
  1567
1568
                              FUNCTIONAL DESCRIPTION:
                   1625
  1569
1570
                   1626
1627
                                      Gets the next record to be parsed from TERMTABLE.TXT.
  1571
                   1628
                               CALLING SEQUENCE:
  1572
                   1629
                   1630
  1573
                                      status = SMG$$NEXT_RECORD ()
  1574
                   1631
  1575
                   1632
                               FORMAL PARAMETERS:
  1576
                   1633
  1577
                   1634
                                      NONE
  1578
                   1635
  1579
                   1636
                               IMPLICIT INPUTS:
  1580
                   1637
  1581
                   1638
                                      AP
                                                Points to TPARSE parameter block
  1582
                   1639
                   1640
  1583
                               IMPLICIT OUTPUTS:
  1584
                   1641
                   1642
  1585
                                      the string pointer and string count in the TPARSE
  1586
                                      parameter block are updated to point to the new record
  1587
                   1644
  1588
                   1645
                               COMPLETION STATUS:
  1589
                   1646
  1590
                   1647
                                       SS$_NORMAL
  1591
                   1648
  1592
                   1649
                               SIDE EFFECTS:
  1593
                   1650
  1594
                   1651
  1595
                   1652
                   1653
  1596
                                 BEGIN
  1597
                   1654
                                 BUILTIN
  1598
                   1655
                                      AP;
  1599
                   1656
                                 MAP
  1600
                   1657
                                      AP : REF BLOCK [,BYTE];
                   1658
  1601
                                 LOCAL
                   1659
                                      TXT_RAB : REF $RAB_DECL, RMS_STATUS;
  1602
  1603
                   1660
  1604
                   1661
  1605
                   1662
                              Get a record from TERMTABLE.TXT. Use the private parameters appended to the TPARSE parameter block to find the RAB.
                   1663
  1606
  1607
                   1664
  1608
                   1665
  1609
                   1666
  1610
                   1667
                                  TXT_RAB = .AP [PARAM_A_TXT_RAB];
  1611
                   1668
                   1669
  1612
                   1670
                                      BEGIN
  1613
                   1671
                                      RMS_STATUS = $GET (RAB = .TXT_RAB);
  1614
                   1672
  1615
  1616
                                 UNTIL .RMS_STATUS NEQ RMS$_RSA;
                   1674
  1617
                   1675
  1618
                                  IF NOT (.RMS_STATUS) AND
  1619
                   1676
                                     .RMS_STATUS NEQ RMS$_EOF
```

SM(

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$NEXT_RECORD - Get next record from TERMTAB 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                                                  VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                       Page 54
                                                                                                                                  [SMGRTL.SRC]SMGSTATAB.B32:1
                                                                                                                                                                                              (21)
  1622345
1622345
1662289
16623312345
1663389
163389
                       1678
1679
                                               SIGNAL_STOP (.RMS STATUS);
                        1680
                                   ! Set TPARSE pointer to the new record.
                        1681
                       1682
1683
                        1684
                                         IF .RMS_STATUS NEQ RMS$_EOF
                        1685
                                         THEN
                        1686
                                               BEGIN
                        1687
                                               LOCAL
                                                     TUP_STATUS,
SRC_STR : BLOCK [8,BYTE],
ORIG_STRING : BLOCK [8,BYTE],
COPY_STATUS;
                        1688
                        1689
                        1690
                        1691
                        1692
                        1693
                                               SMG$$CURRENT_LINE = .SMG$$CURRENT_LINE + 1;
                        1694
                                                                                              ! maintain line number for errors
                        1695
                       1696
                                               ! We need to parse an upcased string, but copy from
                       1697
  1640
                                                  the user's original string, preserving lower case
  1641
                       1698
                                                  escape sequences. So save away the original string.
                       1699
  1643
1644
1645
                       1700
                       1701
                                               ORIG_STRING [DSC$B_CLASS] = DSC$K_CLASS_S;
ORIG_STRING [DSC$B_DTYPE] = DSC$K_DTYPE_T;
ORIG_STRING [DSC$W_LENGTH] = 255;
                       1702
  1646
1647
1648
1649
1650
1651
1653
                       1703
                       1704
                                               ORIG_STRING [DSC$A_POINTER] = .AP [PARAM_L_ORIG_TXT];
                       1705
1706
1707
                                               SRC_STR [DSC$B_CLASS] = DSC$K_CLASS_S;
SRC_STR [DSC$B_DTYPE] = DSC$K_DTYPE_T;
SRC_STR [DSC$W_LENGTH] = .TXT_RAB [RAB$W_RSZ];
SRC_STR [DSC$A_POINTER] = .TXT_RAB [RAB$C_RBF];
                       1708
                       1709
1710
1711
  1654
1655
                                               IF NOT (COPY_STATUS = STR$COPY_DX (ORIG_STRING, SRC_STR))
                       1712
1713
                                               THEN
  1656
1657
1658
1659
                                                     SIGNAL_STOP (.COPY_STATUS);
                       1714
                       1715
                                               IF NOT (UP_STATUS = STR$UPCASE (SRC_STR, SRC_STR))
                       1716
                                               THEN
                       1717
  1660
                                                     SIGNAL_STOP (.UP_STATUS);
                       1718
  1661
                       1719
                                               AP [TPA$L_STRINGPTR] = .SRC_STR [DSC$A_POINTER];
AP [TPA$L_STRINGCNT] = .SRC_STR [DSC$W_LENGTH];
  1662
  1663
                       1720
1721
1722
1723
1724
1725
1726
1727
1730
1731
1732
  1664
                                               END
  1665
                                         ELSE
  1666
                                               BEGIN
  1667
  1668
                                                 Tell LIB$TPARSE there's no more to parse.
  1669
1670
1671
                                               AP [TPA$L_STRINGPTR] = UPLIT (BYTE (NULL));
AP [TPA$L_STRINGCNT] = 1;
  1672
                                               END:
  1674
                                         RETURN (SS$_NORMAL);
  1675
                       1733
 1676
                                         END:
                                                                                                          ! end of routine SMG$$NEXT_RECORD
```

00	0053A 0053C	P.AAB:	.BLKB .BYTE	2
00	0053C	P.AAB:	.BYTE	(

							• • • • • • • • • • • • • • • • • • • •		
	54 5E 52	00000000G 28	00 10 A C 52	9E 00	0000C		.ENTRY MOVAB SUBL2 MOVL	SMG\$\$NEXT_RECORD, Save R2,R3,R4 LIB\$STOP, R4 #16, SP 40(AP), TXT_RAB	: 1621 : 1667
00000006	٥٥		52	DD	00010	15:	PUSHL	TXT_RAB #1, SYS\$GET	; 1671
	00 53		01 55 85 55 55 55 50 51 53	DO			CALLS MOVL	RO, RMS_STATUS	•
000182DA	8F		53	D1	0001C		CMPL	RMS_STATUS, #99034	: 1673
	0E		FB	13 E8			BEQL	1\$ The status of	1475
0001827A	8F		53	D1			BLBS CMPL	RMS_STATUS, 2\$ RMS_STATUS, #98938	; 1675 ; 1676
			05	13	0002F		BEQL	2\$	
	64		53	DD FB	00031		PUSHL	RMS_STATUS #1, LIB\$STOP	: 1678
0001827A	8F		53	D1	00033 00036	2\$:	CALLS CMPL	RMS_STATUS, #98938	1684
	Ο.		58	13	0003D		BEQL	5 \$ -	
	45	000000000	EF	D6	0003F		INCL	SMG\$\$CURRENT_LINE	; 1693
04	6E	010E00FF 5C	8F AC		00045 00040		MOVL Movl	#17694975, ORIG STRING 92(AP) ORIG STRING+4	; 1703 ; 1704
0 A	AE AE	01ÓĚ	8F	ВŎ	00051		MOVW	92(AP), ORIG STRING+4 #270, SRC STR+2 34(TXT_RAB), SRC_STR	: 1707
08	ΑE	22	A2	BO	00057		MOVW	34(TXT_RAB), SRC_STR	: 1708
00	ΑE	28 08	AŽ	96	0005C 00061		MOVL	4U(IXI_KAB), SKL_STK+4	1709
		04	AE AE	9F	00064		PUSHAB PUSHAB	SRC_STR ORIG STRING	1711
0000000G	00	• •	02	FB	00067		CALLS	ORIG_STRING #2, STR\$COPY_DX COPY_STATUS, 3\$ COPY_STATUS	
	05		50	E8	0006E		BLBS	COPY_STATUS, 3\$	
	64		50 01	DD FB	00071 00073		PUSHL CALLS	#1, EIB\$STOP	1713
	04	08	ΑĒ	9F	00076	35 :	PUSHAB	SRC STR	1715
		ŎČ	AE	9F	00079		PUSHAB	SRC_STR SRC_STR	
00000000	00 05		02 50	fB	00070		CALLS	#2, STR\$UPCASE	
	U		50	E8 DD	00083 00086		BLBS Pushl	UP_STATUS, 4\$	1717
	64		ÓĬ	FB	00088		CALLS	UP_STATUS #1, LIB\$STOP	
00	AC	0 C	AE	ĎΟ		48:	MOVL	SRC_STR+4, 12(AP)	: 1719
08	AC	08	AE OA	3C	00090 00095		MOVZWL Brb	SRC_STR, 8(AP) 6\$; 1720 ; 1684
ОС	AC	FF64	CF		00097	5 \$:	MOVAB	P.AAB, 12(AP)	1727
08	AC		01	DO	0009D		MOVL	#1, 8(AP)	: 1728
	50		01	ρÓ	000A1	6\$:	MOVL	#1, R0	1731
				04	000A4		RET		; 1733

.EXTRN SYS\$GET

; Routine Size: 165 bytes, Routine Base: _SMG\$CODE + 053D

56 (22)

Page

VAX-11 Bliss-32 V4.0-742

```
TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$SAVE_TOKEN_STRING - Save count & pointer t 14-Sep-1984 13:10:03
1-004
                                                                                                                       ESMGRTL.SRCJSMGSTATAB.B32.1
                     1734
1735
1736
1737
                                *SBTTL 'SMG$$SAVE_TOKEN_STRING - Save count & pointer to current token'
 1678
  1679
                                 GLOBAL ROUTINE SMG$$SAVE_TOKEN_STRING =
  1680
  1681
  1682
1683
                     1738
1739
                                   FUNCTIONAL DESCRIPTION:
                      1740
  1684
                                           Save a pointer to the start of the capability string, and
                      1741
  1685
                                           maintain a count of the characters.
                     1742
  1686
                                   CALLING SEQUENCE:
  1687
                     1744
1745
  1688
  1689
                                           status = SAVE_TOKEN_STRING ()
                     1746
1747
1748
1748
1750
1751
1753
1755
1756
1760
1761
1763
  1690
  1691
                                   FORMAL PARAMETERS:
  1692
1693
                                           NONE
  1694
  1695
                                   IMPLICIT INPUTS:
  1696
  1697
                                           AP
                                                      Points to TPARSE parameter block
  1698
  1699
                                   IMPLICIT OUTPUTS:
  1700
  1701
                                           NONE
  1702
1703
                                   COMPLETION STATUS:
 1704
1705
1706
1707
                                            SS$_NORMAL
                                   SIDE EFFECTS:
                     1764
1765
  1708
  1709
                     1766
1767
1768
1769
1770
1771
1772
1773
1774
1775
1776
1777
  1710
  1711
                                      BEGIN
  1712
                                     BUILTIN
 1713
                                           AP;
  1714
                                      MAP
  1715
                                           AP : REF BLOCK [,BYTE];
  1716
  1717
  1718
                                   TPARSE maintains a pointer to the current character but what we need
  1719
                                   is all the characters between quotes - they are the current capability
  1720
1721
1722
1723
                                   string. So we maintain our own pointer into the TPARSE input string. (COPY_CAP will use this information to copy the current capability. COPY_CAP also re-initializes the count & pointer to zero after it does
                                   its job.)
  1724
1725
1726
1727
1728
                     1780
1781
                                   Note that we store a pointer to the user's original string, not the
                     1782
1783
                                   string that we parsed. This is because the parse string has been
                                   upcased but we need to preserve lower case letters in an escape sequence.
                     1784
1785
  1729
1730
1731
1732
1733
                                   for a numeric string, there are no quotes delimiting the string - we
                     1786
1787
1788
                                   will be storing all digits.
                      1789
                                      IF .AP [PARAM_L_SAVED_TOKENSTR] EQL 0
                      1790
                                      THEN
```

SMG\$STATEMENT_T TPARSE tables for TERMTABLE statements

```
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 1-004 SMG$$SAVE_TOKEN_STRING - Save count & pointer t 14-Sep-1984 13:10:03
                                                                                                                VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                                              Page 57 (22)
                    1792
1793
                                         ! Only save the pointer the first time we're called.
                     1794
                                        BEGIN
                     1795
                                        LOCAL
                    1796
1797
                                              TXT_RAB : REF $RAB_DECL,
                                              OFFSET:
                     1798
                                        1799
                     1800
                     1801
                     1802
  1746
1747
1748
                                         END:
                     1804
                                   AP [PARAM_L_SAVED_TOKENCNT] = .AP [FARAM_L_SAVED_TOKENCNT] + .AP [TPA$L_TOKENCNT];
  1749
                     1805
  1750
                     1806
  1751
1752
1753
                    1807
                    1808
                                   RETURN (SS$_NORMAL);
                    1809
                    1810
  1754
                                   END:
                                                                                  ! end of routine SMG$$SAVE_TOKEN_STRING
                                                                                                                                                                   1735
1789
                                                                      0000 00000
                                                                                               ENTRY
                                                                                                        SMG$$SAVE_TOKEN_STRING, Save nothing
                                                                                              ŤŠTL
                                                             58
                                                                        D 5
                                                                            00002
                                                                                                         88(AP)
                                                                    10
                                                                         12
                                                                            00005
                                                                                              BNEQ
                                                                                                         15
                                                             28 AC
28 AO
5C BC40
10 AC
                                                                                                        40(AP), TXT_RAB
40(TXT_RAB), 20(AP), OFFSET
a92(AP)[OFFSET], 88(AP)
                                                                                                                                                                   1799
                                                                        DŌ
                                                                            00007
                                                                                              MOVL
                                           14
58
54
                                                                                                                                                                   1800
1802
                                                                        C3 0000B
9E 00011
                                50
                                                  AC
                                                                                              SUBL 3
                                                  AC
                                                                                              MOVAB
                                                                                                                                                                   1806
1808
                                                 AC
50
                                                                         ĊŌ
                                                                                              ADDL2
                                                                            00017 15:
                                                                                                        16(AP), 84(AP)
                                                                                                        #1, RO
                                                                    01
                                                                         DO 0001C
                                                                                              MOVL
                                                                                                                                                                   1810
                                                                            0001F
                                                                                              RET
```

Routine Base: _SMG\$CODE + 05E2

; Routine Size: 32 bytes,

! end of routine SMG\$\$STORE_CAP_MASK

1863

END:

SMG\$STATEMENT_T TPARSE tables 1-004 SMG\$\$STORE_CA	for TER NP_MASK -	MTABLE statemen Store the capa	nts Bbilit	y mask	E 8 16-Sep-1984 01:1 14-Sep-1984 13:1	9:22 VAX-11 Bliss-32 V4.0-742 0:03 [SMGRTL.SRC]SMGSTATAB.B32;1	Page 59 (23)
; Routine Size: 19 bytes,	50 Routine	52 00000000° AC 50 Base: _SMG\$CC	EF 62 62 01	04 0000 9E 0000 D0 0000 D4 0000 D0 0000	2 MOVAB 9 MOVL D CLRL F MOVL	SMG\$\$STORE_CAP_MASK, Save R2 SMG\$\$MASK_ADR, R2 SMG\$\$MASK_ADR, 80(AP) SMG\$\$MASK_ADR #1, R0	; 1812 ; 1858 ; 1859 ; 1861 ; 1863

```
8
                                                                            16-Sep-1984 01:19:22
14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                         VAX-11 Bliss-32 V4.0-742
                                                                                                                                                    Page 60 (24)
                   SMG$$SYNTAX_ERROR - Signal a syntax error
                                                                                                         [SMGRTL.SRC]SMGSTATAB.B32;1
                            %SBTTL 'SMG$$SYNTAX_ERROR - Signal a syntax error' GLOBAL ROUTINE SMG$$SYNTAX_ERROR =
; 1810
                   1864
1865
  1811
 1812
                   1866
1867
  1814
                   1868
                              FUNCTIONAL DESCRIPTION:
  1815
                   1869
                   1870
  1816
                                      Signal that a syntax error occurred while parsing TERMTABLE.TXT.
                   1871
  1817
                   1872
  1818
                               CALLING SEQUENCE:
  1819
                   1874
  1820
                                      SMG$$SYNTAX_ERROR ()
                   1876
1877
                               FORMAL PARAMETERS:
                   1878
                   1879
                                      NONE
                   1880
                   1881
                               IMPLICIT INPUTS:
                   1882
                                      AP
                                               Points to TPARSE parameter block
                   1884
  1830
                   1885
                               IMPLICIT OUTPUTS:
                   1886
                   1887
                                      NONE
                   1888
                   1889
                               COMPLETION STATUS:
                   1890
                   1891
                                       SS$_NORMAL
                   1892
1893
  1838
  1839
                               SIDE EFFECTS:
                   1894
  1840
  1841
                   1895
  1842
                   1896
                   1897
  1843
                                 BEGIN
                   1898
  1844
                                 BUILTIN
                   1899
  1845
                                      AP;
                   1900
                                 MAP
  1846
                   1901
  1847
                                      AP : REF BLOCK [,BYTE];
                   1902
  1848
                                 SIGNAL_STOP (SMG$_ERRAT_LIN,
3, .5MG$$CURRENT_LINE,
.AP [TPA$L_TOKENENT],
.AP [TPA$L_TOKENPTR],
  1849
  1850
                   1904
  1851
                   1905
                   1906
  1852
  1853
                   1907
                                                 SMG$_SYNERR)
                   1908
                   1909
  1855
                                 END:
                                                                            ! end of routine SMG$$SYNTAX_ERROR
```

		0	000	00000	.ENTRY	SMG\$\$SYNTAX_ERROR, Save nothing	; 1865
	0000000G	00	9F	00002	PUSHAB	SMG\$ SYNERR	: 1903
7E	10	ĀĊ	70	80000	PVOM	16(AP), -(SP)	: 1905
	00000000	EF	DD	0000C	PUSHL	SMG\$\$CURRENT_LINE	: 1904
		03	DD	00012	PUSHL	#3	: 1903
	0000000G	ÓÕ	9F	00014	PŪŠHĀB	SMG\$ ERRAT LIN	i

G 8 16-Sep-1984 01:19:22 14-Sep-1984 13:10:03 SMG\$STATEMENT_T TPARSE tables for TERMTABLE statements
1-004 SMG\$\$SYNTAX_ERROR - Signal a syntax error VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1 06 FB 0001A 04 00021 0000000G 00

CALLS #6, LIB\$STOP RET

1909

Page 61 (24)

; Routine Size: 34 bytes, Routine Base: _SMG\$CODE + 0615

```
8
                  TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$WRITE_DATA - perform block I/C write of da 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                   VAX-11 Bliss-32 V4.0-742
                                                                                                                                           Page 62 (25)
1-004
                                                                                                   ĽSMGRTL.SRCJSMGSTATAB.B32;1
                          %SBTTL 'SMG$$WRITE_DATA - perform block I/O write of data to file' GLOBAL ROUTINE SMG$$WRITE_DATA =
  1858
                  1911
                  1912
  1859
  1860
                  1914
  1861
                             FUNCTIONAL DESCRIPTION:
  1862
1863
                  1915
                  1916
                                    This routine writes the terminal data to TERMTABLE.EXE using
                  1917
                                    block 1/0.
  1864
                  1918
  1865
                  1919
  1866
                             CALLING SEQUENCE:
                  1920
  1867
                  1921
1922
1923
1924
1925
1926
  1868
  1869
                                    SMG$$WRITE_DATA ()
  1870
  1871
                             FORMAL PARAMETERS:
  1872
 1873
                                    NONE
  1874
                  1928
1929
  1875
                             IMPLICIT INPUTS:
 1876
                  1930
  1877
                                    AP
                                             Points to TPARSE parameter block
  1878
                  1931
                  1932
  1879
                             IMPLICIT OUTPUTS:
  1880
                  1934
  1881
                                   NONE
                  1935
  1882
  1883
                  1936
                             COMPLETION STATUS:
  1884
                  1937
  1885
                  1938
                                     SS$_NORMAL
  1886
                  1939
  1887
                  1940
                             SIDE EFFECTS:
  1888
                  1941
                 1942
  1889
  1890
  1891
                  1944
                               BEGIN
                 1945
  1892
                               BUILTIN
                 1946
 1893
  1894
                  1947
                               MAP
  1895
                  1948
                                    AP : REF BLOCK [,BYTE]:
  1896
                  1949
                                   BINARY_RAB : REF $RAB_DECL, NUM_BYTES,
  1897
                  1950
                                                                          point to RAB
  1898
                  1951
                                                                          number of bytes to write
                  1952
1953
  1899
                                    NUM_BLOCKS : INITIAL (0);
                                                                        ! number of blocks used
  1900
                               BINARY_RAB = .AP [PARAM_A_BINARY_RAB];
  1901
                  1954
  1902
                  1955
                               1903
                  1956
  1904
                  1957
  1905
                  1958
  1906
                  1959
                               BINARY_RAB [RAB$L_BKT] = .SMG$$CURRENT_BLOCK;
  1907
                  1960
  1908
                  1961
                                                                        ! set virtual block number
  1909
                  1962
  1910
                  1963
                               $WRITE (RAB = .BINARY_RAB);
  1911
                  1964
                        2 !+
2 ! Update the next available block number.
  1912
                  1965
: 1913
```

```
8
                       TPARSE tables for TERMTABLE statements 16-Sep-1984 01:19:22 SMG$$WRITE_DATA - perform block I/O write of da 14-Sep-1984 13:10:03
SMG$STATEMENT_T TPARSE tables for TERMTABLE statements
                                                                                                                                VAX-11 Bliss-32 V4.0-742 [SMGRTL.SRC]SMGSTATAB.B32;1
                                                                                                                                                                                    Page 63 (25)
                       1968
   1915
  1916
1917
                                         WHILE .NUM_BYTES GEQ 1 DO
                       1970
                                         BEGIN
   1918
                       1971
                                              NUM_BYTES = .NUM_BYTES - 512;
NUM_BLOCKS = .NUM_BLOCKS + 1;
                       1972
   1919
   1920
   1921
1922
1923
                       1974
                       1975
                                         SMG$$CURRENT_BLOCK = .SMG$$CURRENT_BLOCK + .NUM_BLOCKS;
                       1976
                       1977
   1924
                                         RETURN (SS$_NORMAL);
   1925
                       1978
                                         END:
                                                                                             ! end of routine SMG$$WRITE_BLOCK
                                                                                                                       SMG$$WRITE_DATA, Save R2,R3,R4
SMG$$CURRENT_BLOCK, R4
                                                                                001C 00000
                                                                                                            .ENTRY
                                                                                                                                                                                          1911
                                                         54 00000000'
                                                                             E F 5 3
                                                                                   9E 00002
                                                                                                            MOVAB
                                                                                                                       NUM_BLOCKS

48(AP), BINARY_RAB
56(AP), 76(AP), NUM_BYTES
NUM_BYTES, 34(BINARY_RAB)
56(AP), 40(BINARY_RAB)
SMG$$CURRENT_BLOCK, 56(BINARY_RAB)
                                                                                   D4
                                                                                       00009
                                                                                                            CLRL
                                                                                                                                                                                          1944
                                                         50
                                                                      30
38
                                                                                  DQ
C3
                                                                             AC
                                                                                       0000B
                                                                                                            MOVL
                                                                                                                                                                                          1954
                                    52
                                                        AC
AO
                                                                             AC
52
                                                                                                                                                                                          1956
1957
                                                                                       0000F
                                                                                                            SUBL 3
                                                                                   BO 00015
                                                                                                            MOVW
                                                                      38
                                                         A0
                                                                             A640129233331
                                                                                   DO 00019
                                                                                                            MOVL
                                                                                                                                                                                          1958
                                                         AO
                                                                                   DO 0001E
                                                                                                            MOVL
                                                                                                                                                                                          1960
                                                                                                                       BINARY RAB
#1, SYSSWRITE
NUM_BYTES
                                                                                   DD 00022
                                                                                                            PUSHL
                                                                                                                                                                                          1963
                                         0000000G
                                                                                   FB 00024
                                                                                                            CALLS
                                                                                  D5 0002B
15 0002D
9E 0002F
D6 00034
                                                                                       0002B 1$:
                                                                                                            TSTL
                                                                                                                                                                                          1969
                                                                                                            BLEQ
                                                         52
                                                                   FE00
                                                                                                                       -512(R2), NUM_BYTES
NUM_BLOCKS
                                                                                                            MOVAB
                                                                                                                                                                                          1971
                                                                                                                                                                                          1972
1969
1975
1977
                                                                                                            INCL
                                                                                   11 00036
C0 00038 2$:
                                                                                                            BRB
                                                                                                                       15
                                                        64
50
                                                                                                            ADDL2
                                                                                                                       NUM_BLOCKS, SMG$$CURRENT_BLOCK
                                                                                   DO 0003B
                                                                                                            MOVL
                                                                                   04 0003E
                                                                                                            RET
                                                                                                                                                                                          1978
; Routine Size: 63 bytes,
                                            Routine Base: _SMG$CODE + 0637
```

: 1926: 1927

1980 1 !<BLF/PAGE>

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes			Attributes				
SMG\$DATA LIB\$KEYO\$ LIB\$STATE\$ LIB\$KEY1\$ SMG\$CODE	24 12 302 42 1654	NOVEC, WRT, NOVEC, NOWRT, NOVEC, NOWRT, NOVEC, NOWRT, NOVEC, NOWRT,	RD RD RD RD	NOEXE NOSHR, EXE, SHR, EXE, SHR, EXE, SHR,	LCL, LCL, LCL,	REL. REL. REL. REL.	CON, CON, CON, CON,	PIC,ALIGN(2) PIC,ALIGN(1) PIC,ALIGN(1) PIC,ALIGN(1) PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1 _\$255\$DUA28:[SMGRTL.OBJ]RTLLIB.L32;1 _\$255\$DUA28:[SMGRTL.OBJ]SMGLIB.L32;1 _\$255\$DUA28:[SMGRTL.OBJ]SMGTPALIB.L32;1	9776 36 469	90 0 1	0	581 8 38	00:01.0 00:00.1 00:00.4
_\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	41 42	23 28	56 66	10 14	00:00.1 00:00.1

COMMAND QUALIFIERS

ELISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$: SMGSTATAB/OBJ=OBJ\$: SMGSTATAB MSRC\$: SMGSTATAB/UPDATE=(ENH\$: SMGSTATAB

1647 code + 387 data bytes 00:55.2 Size:

Run Time: : Elapsed Time: 02:46.6 : Lines/CPU Min: 2156 : Lexemes/CPU-Min: 53016 : Memory Used: 249 pages : Compilation Complete

0361 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

